Fig.1

~~図 1~~

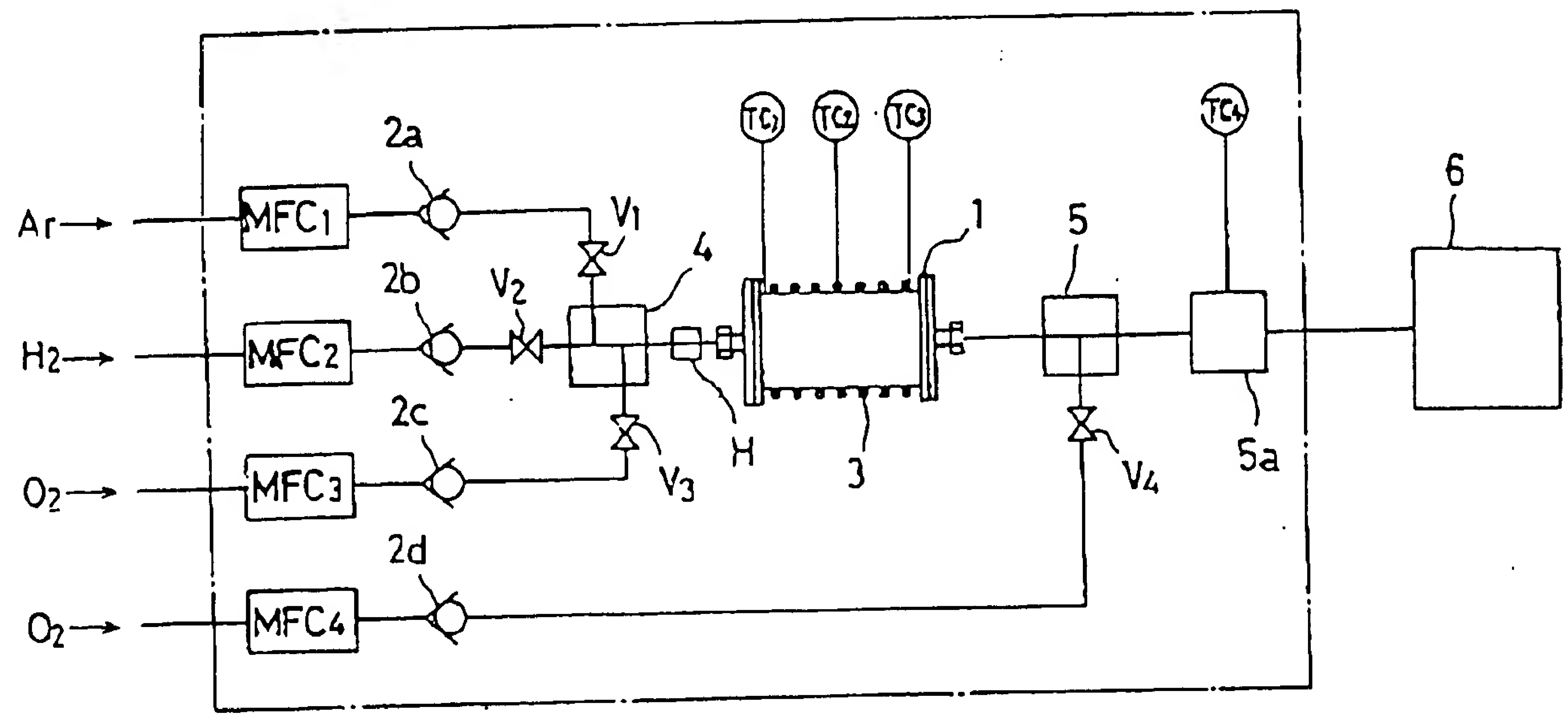


Fig. 2

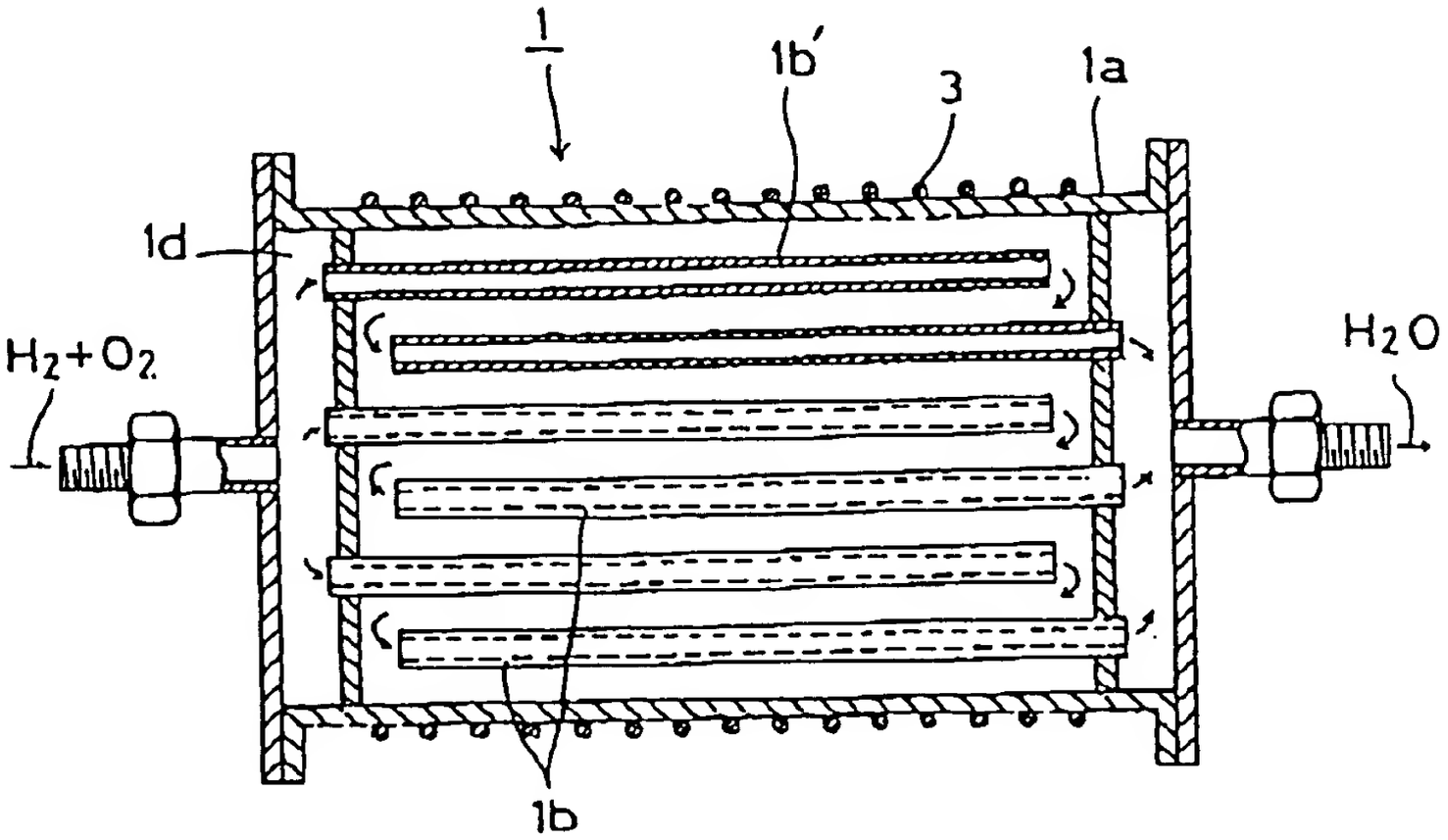


Fig. 3

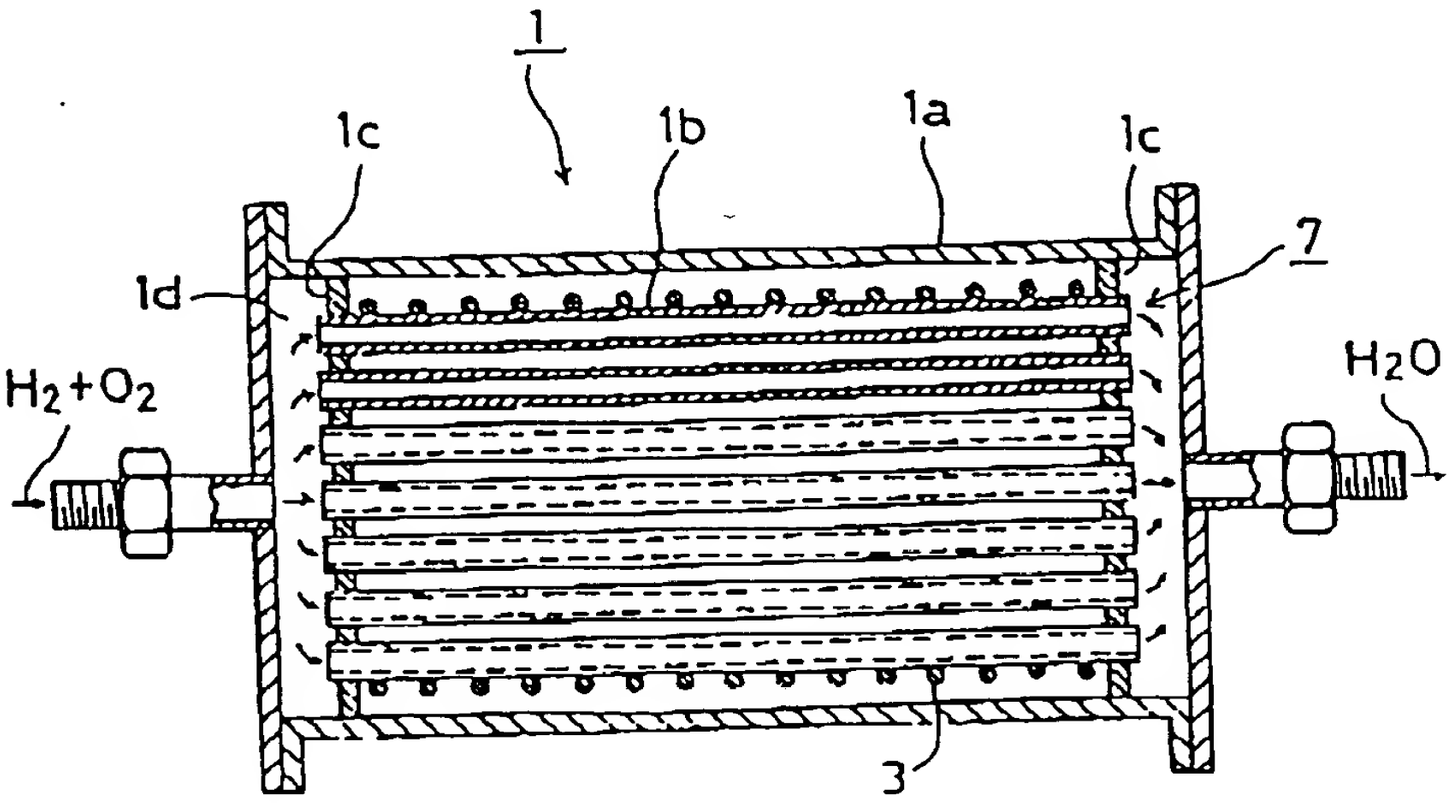


Fig. 4

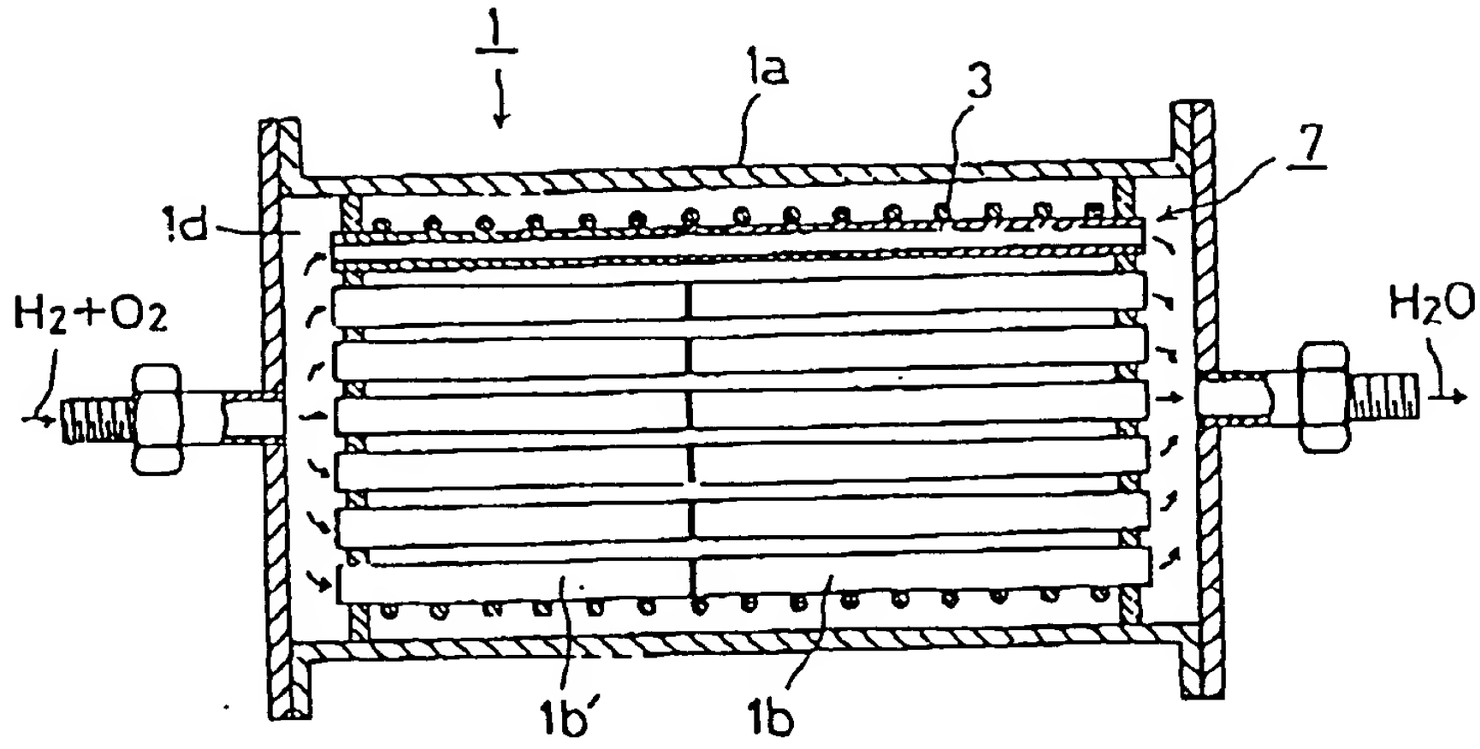


Fig. 5

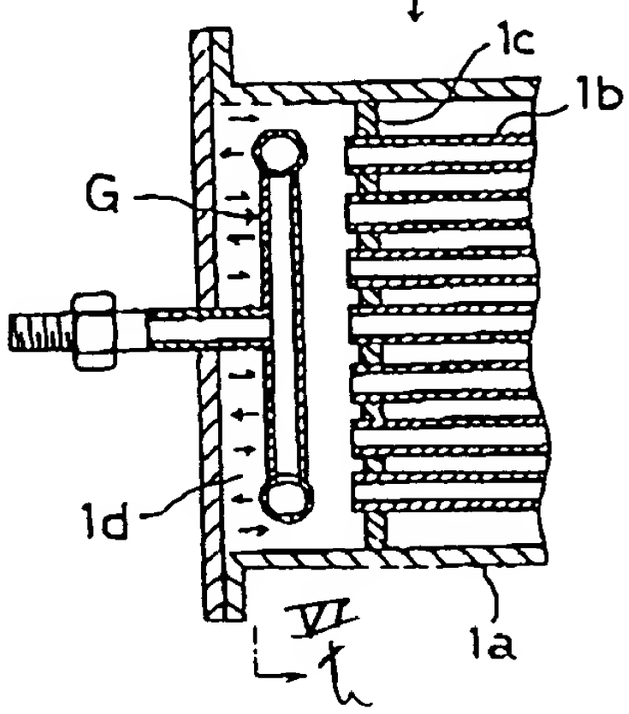


Fig. 6

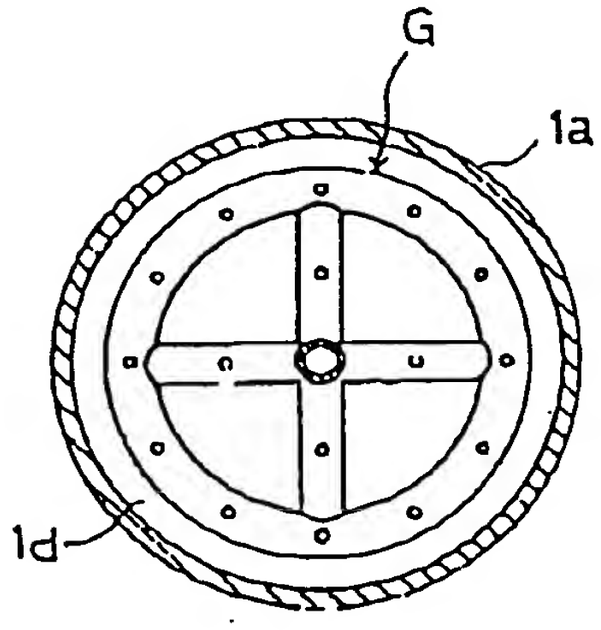


Fig. 7

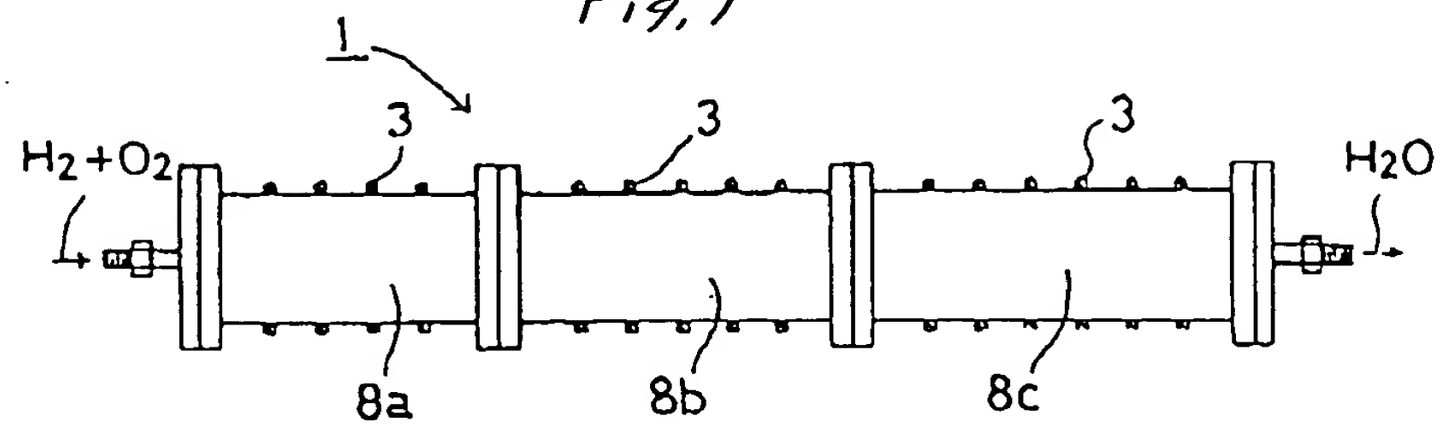


Fig. 8

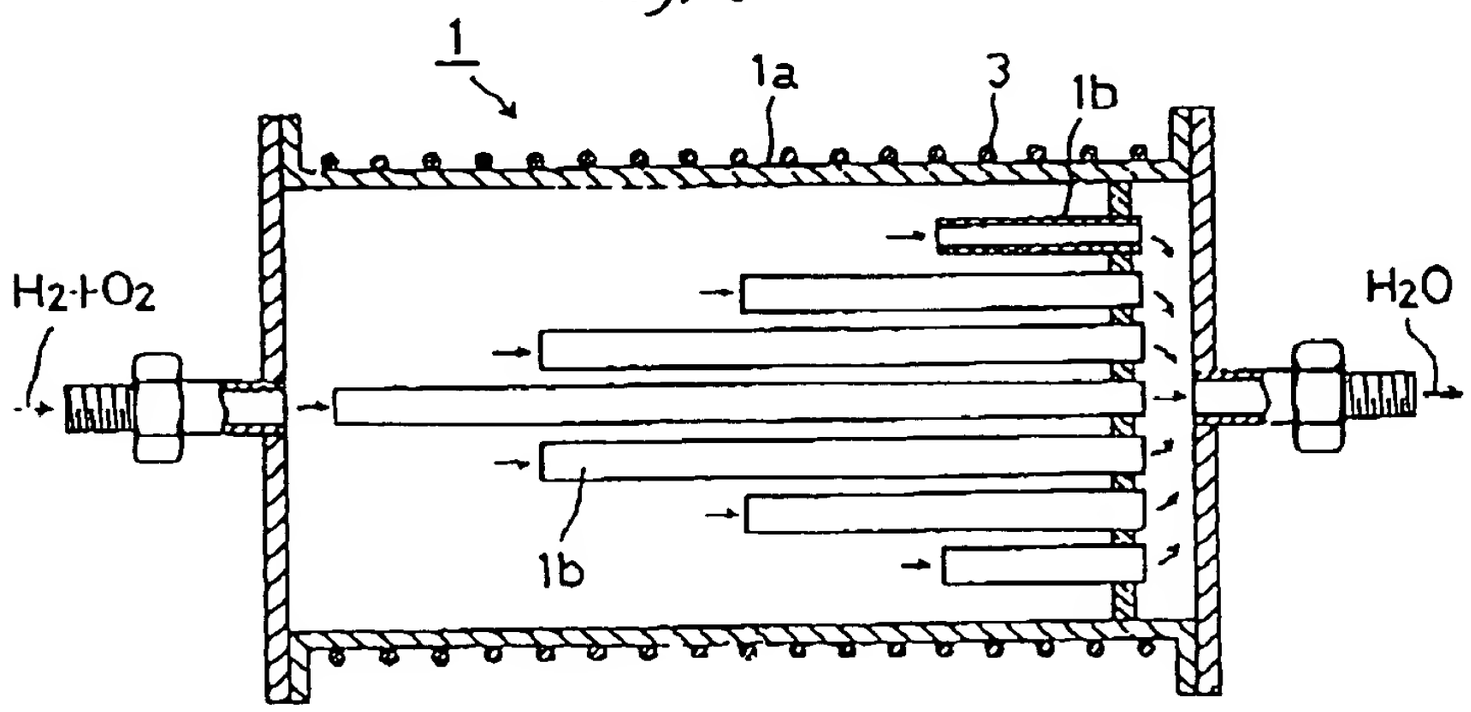
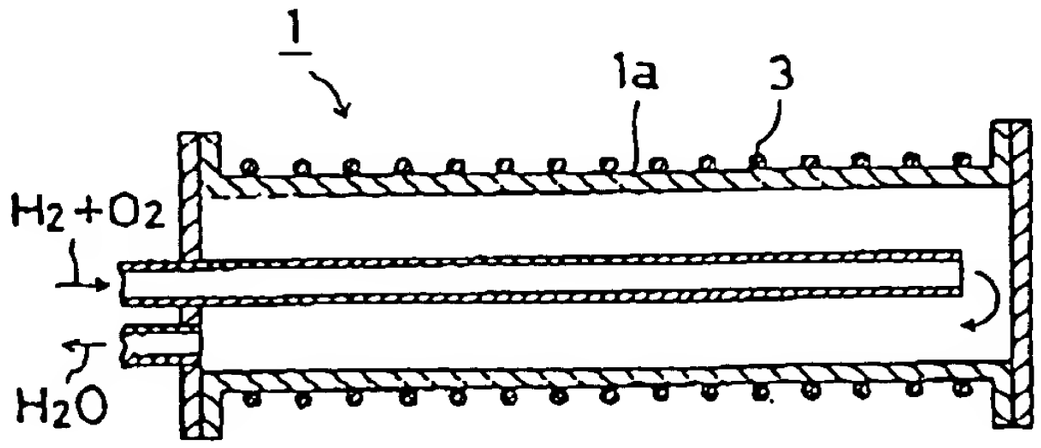
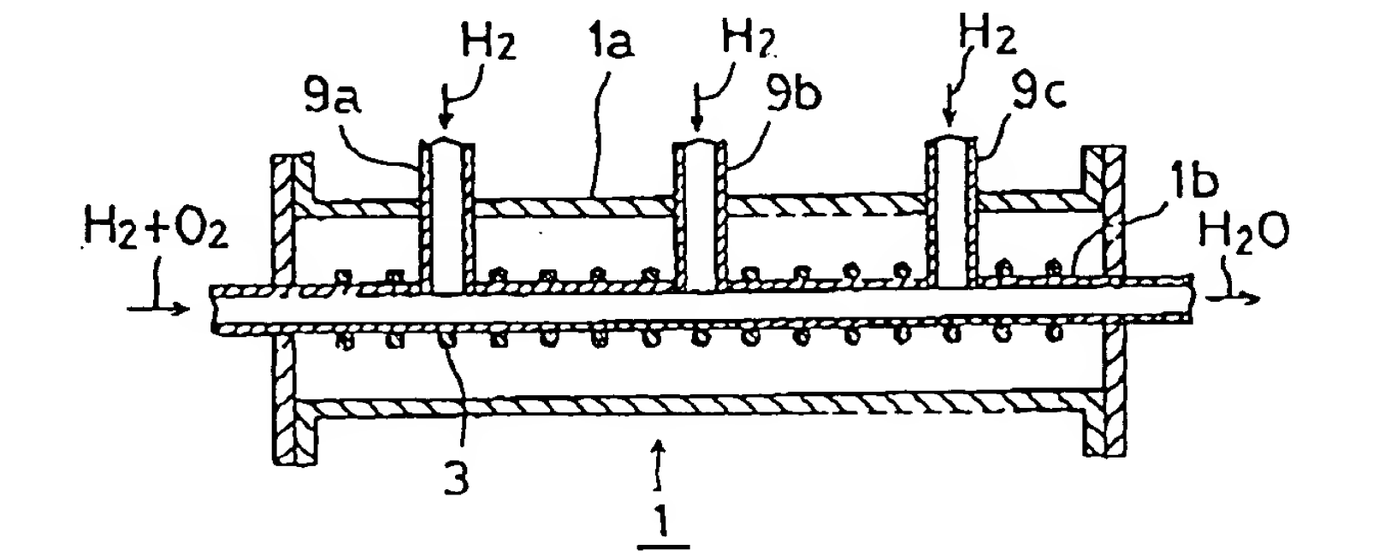


Fig. 9,

9



10 Fig. 10



11

Fig. 11

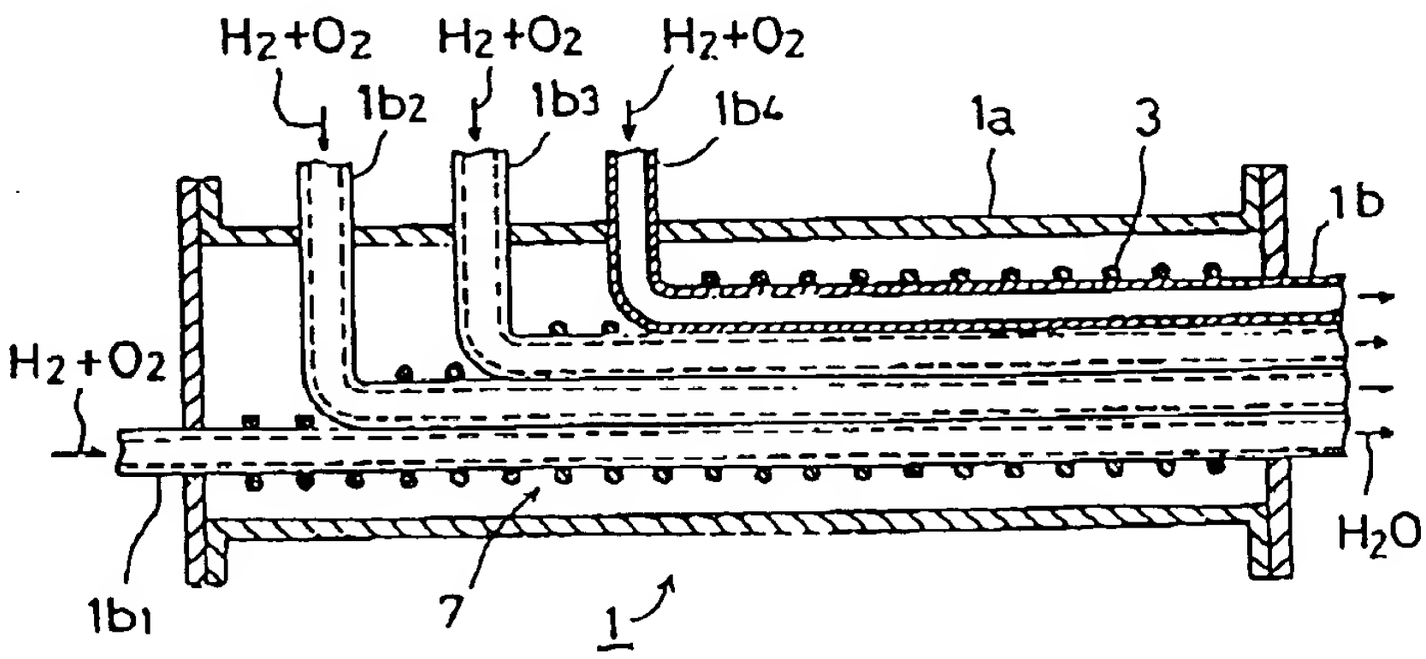
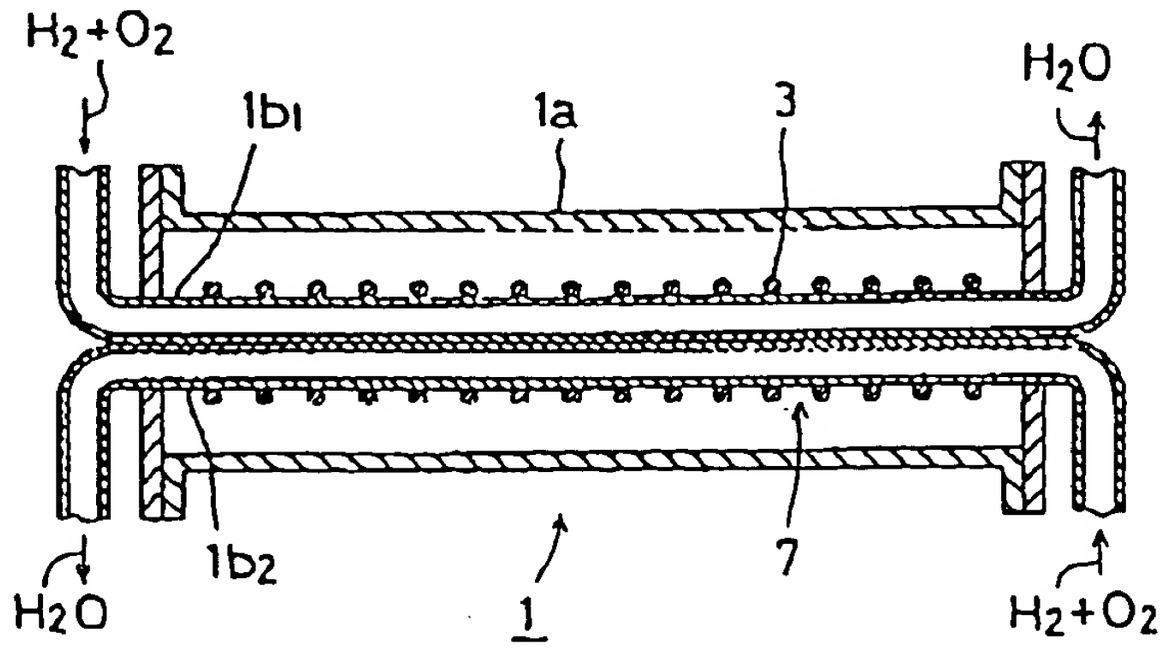


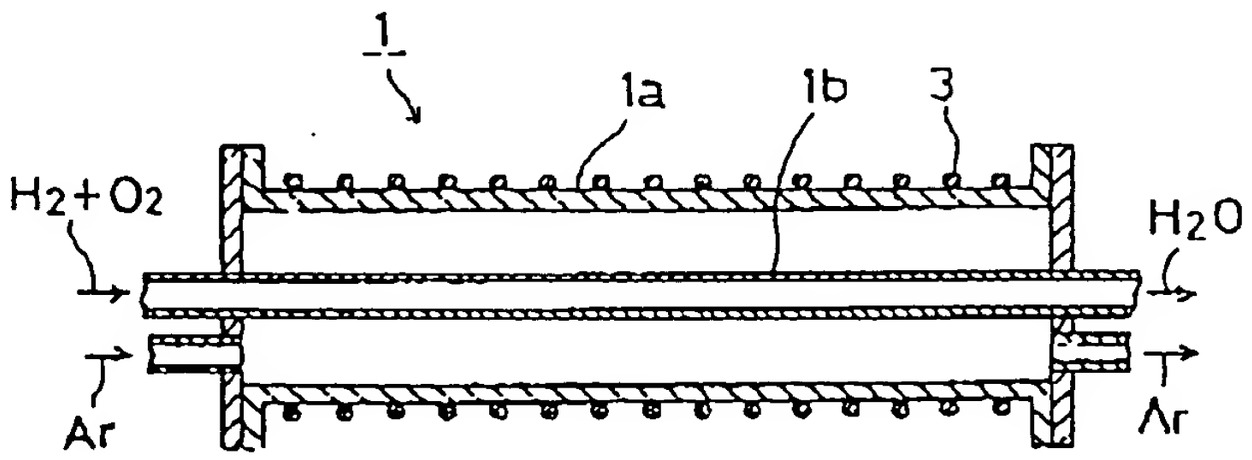
Fig. 12

~~図 12~~



~~図 13~~

Fig. 13



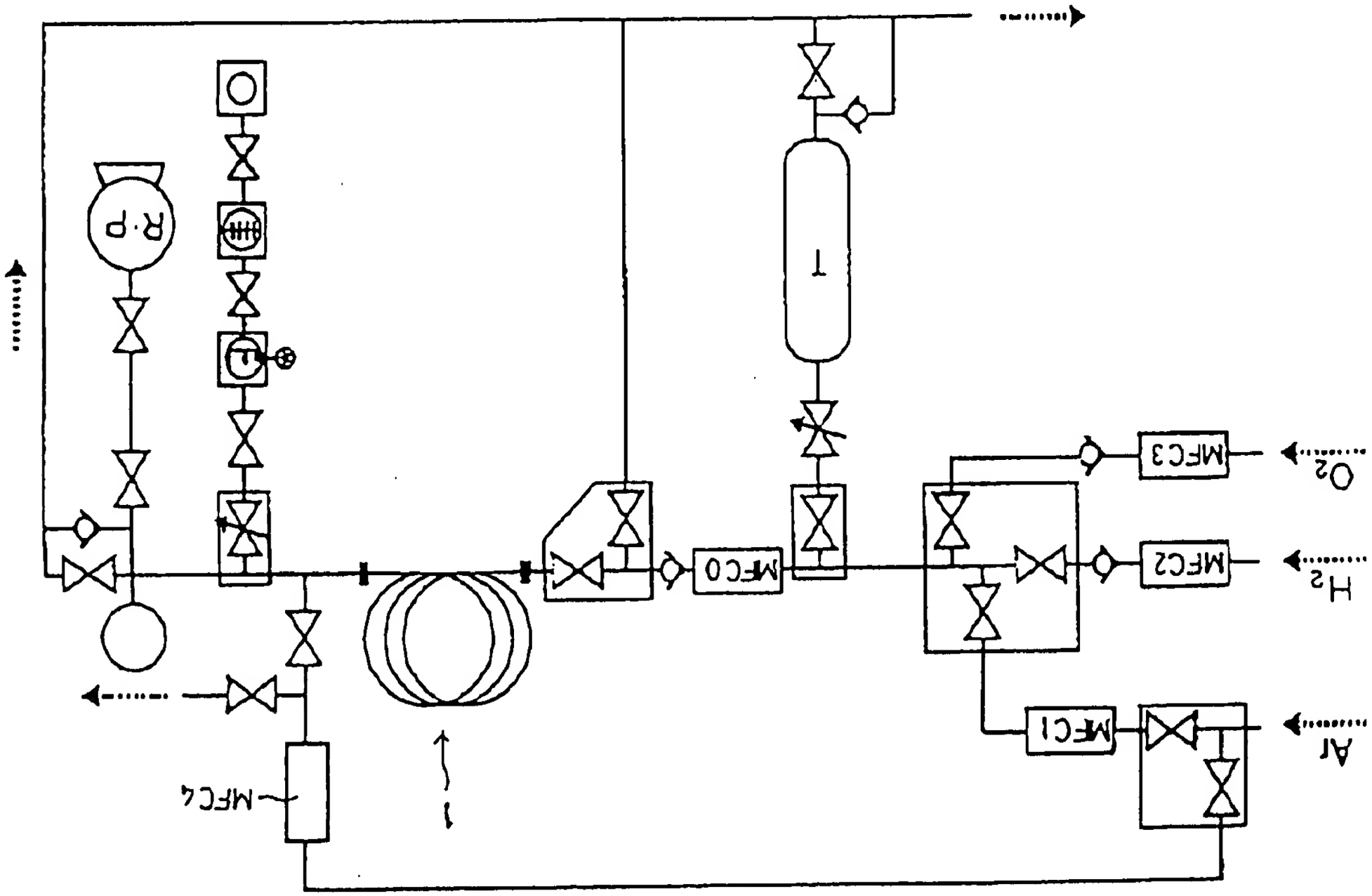
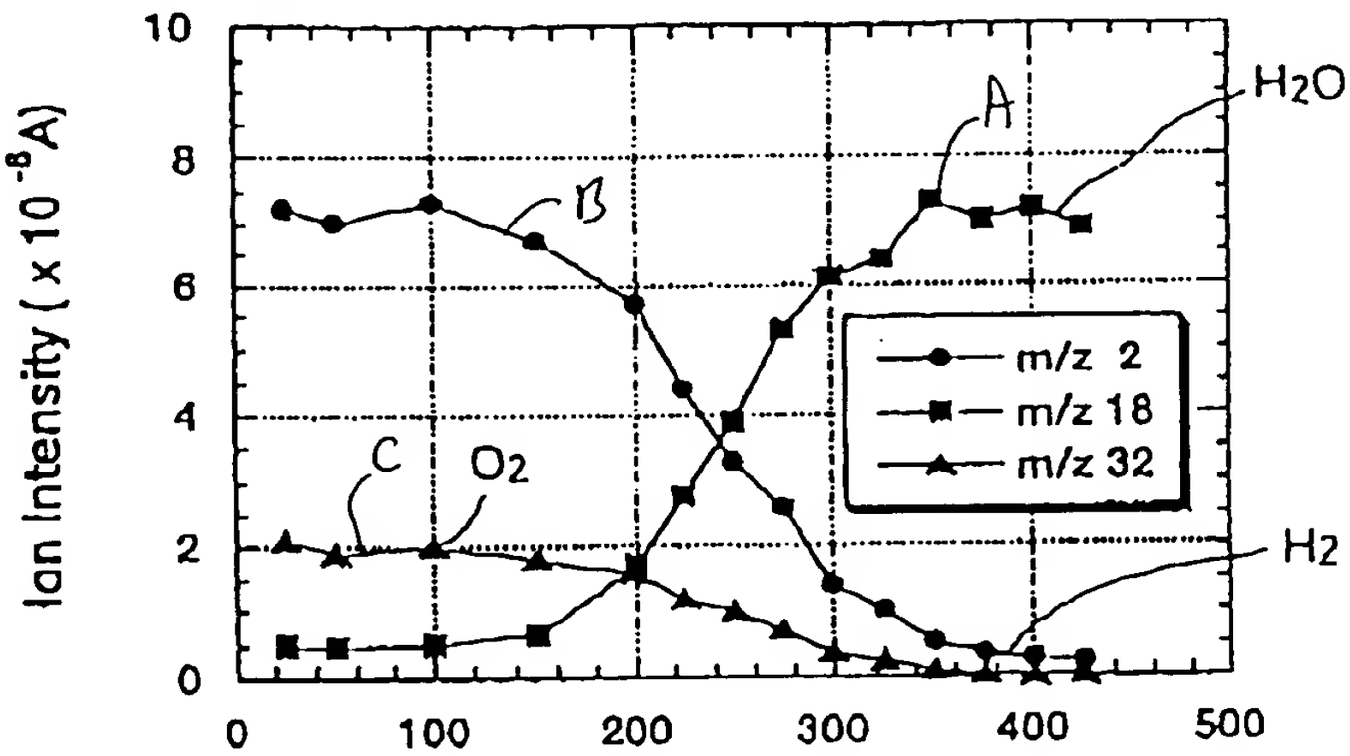


Fig.14

Fig. 15

~~15~~



~~16~~ Fig. 16

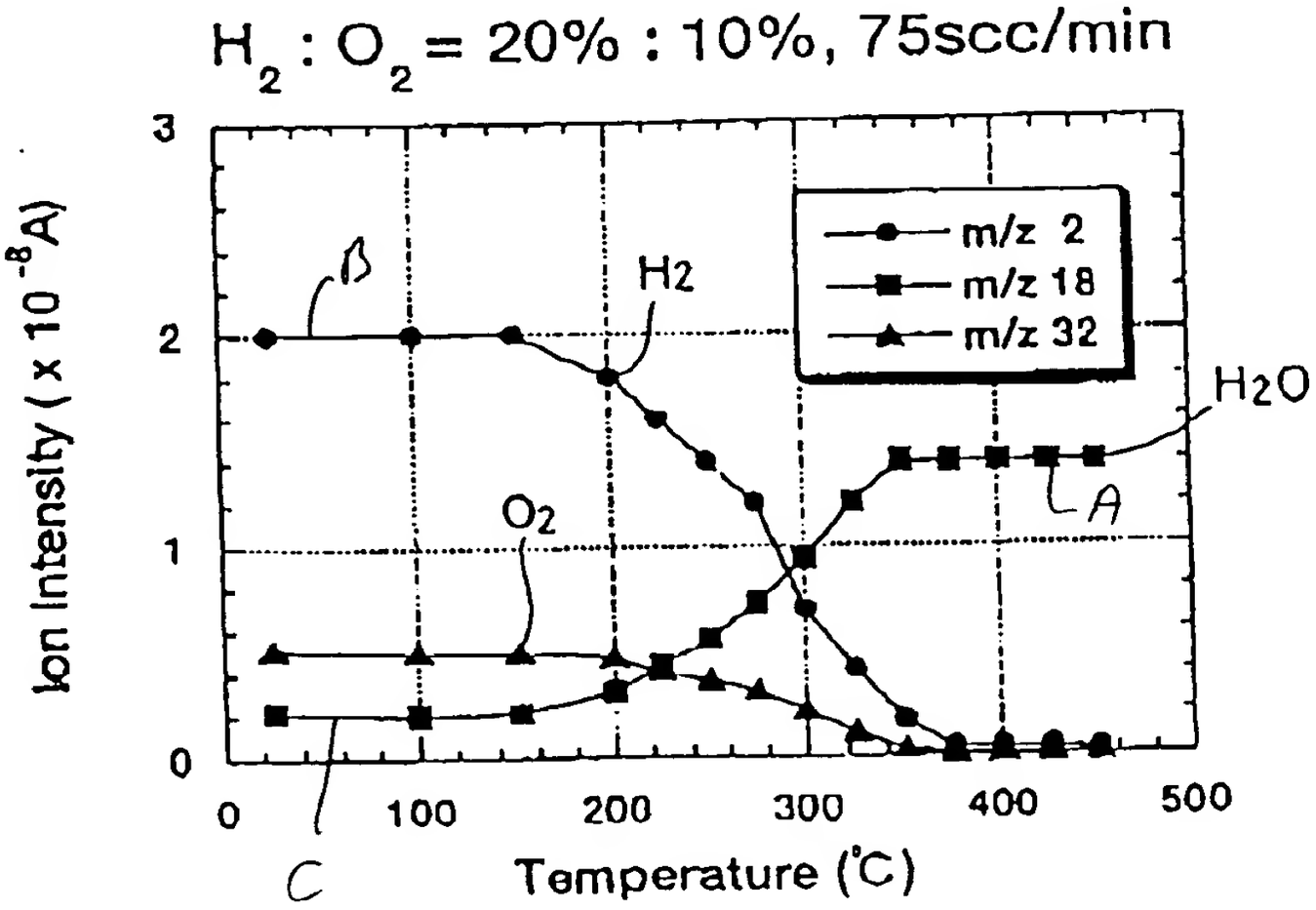
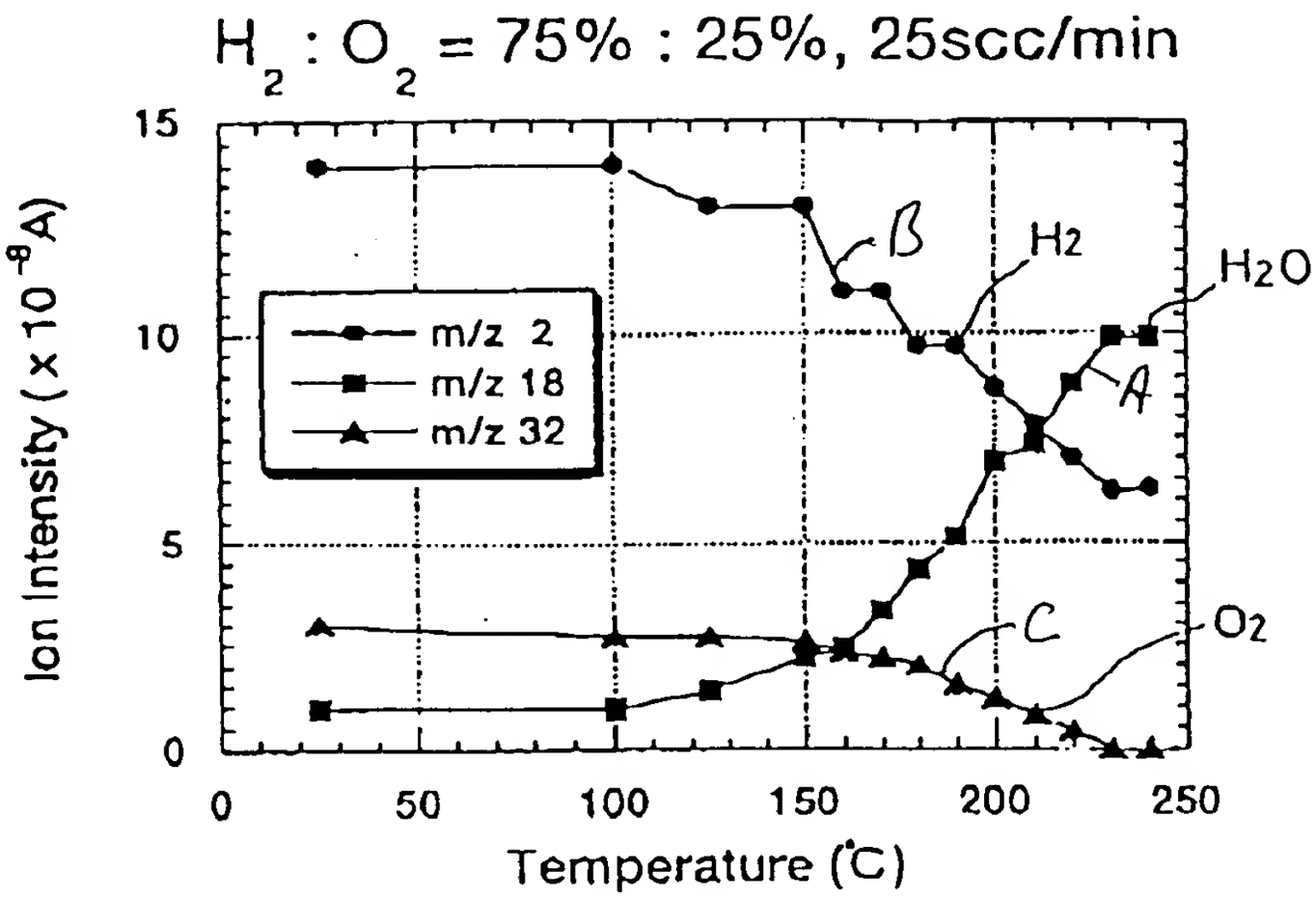
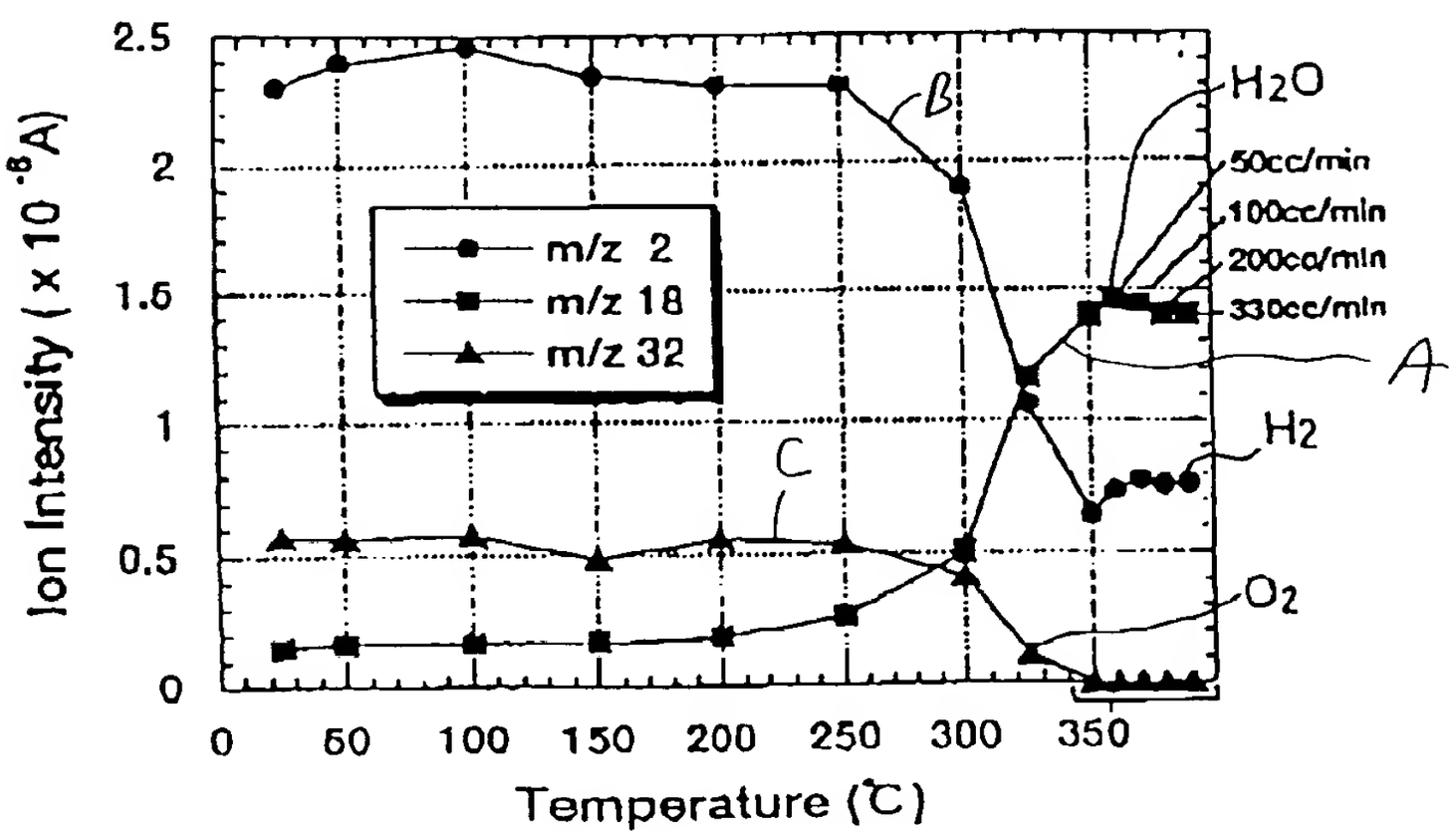


Fig. 17

~~FIG 17~~

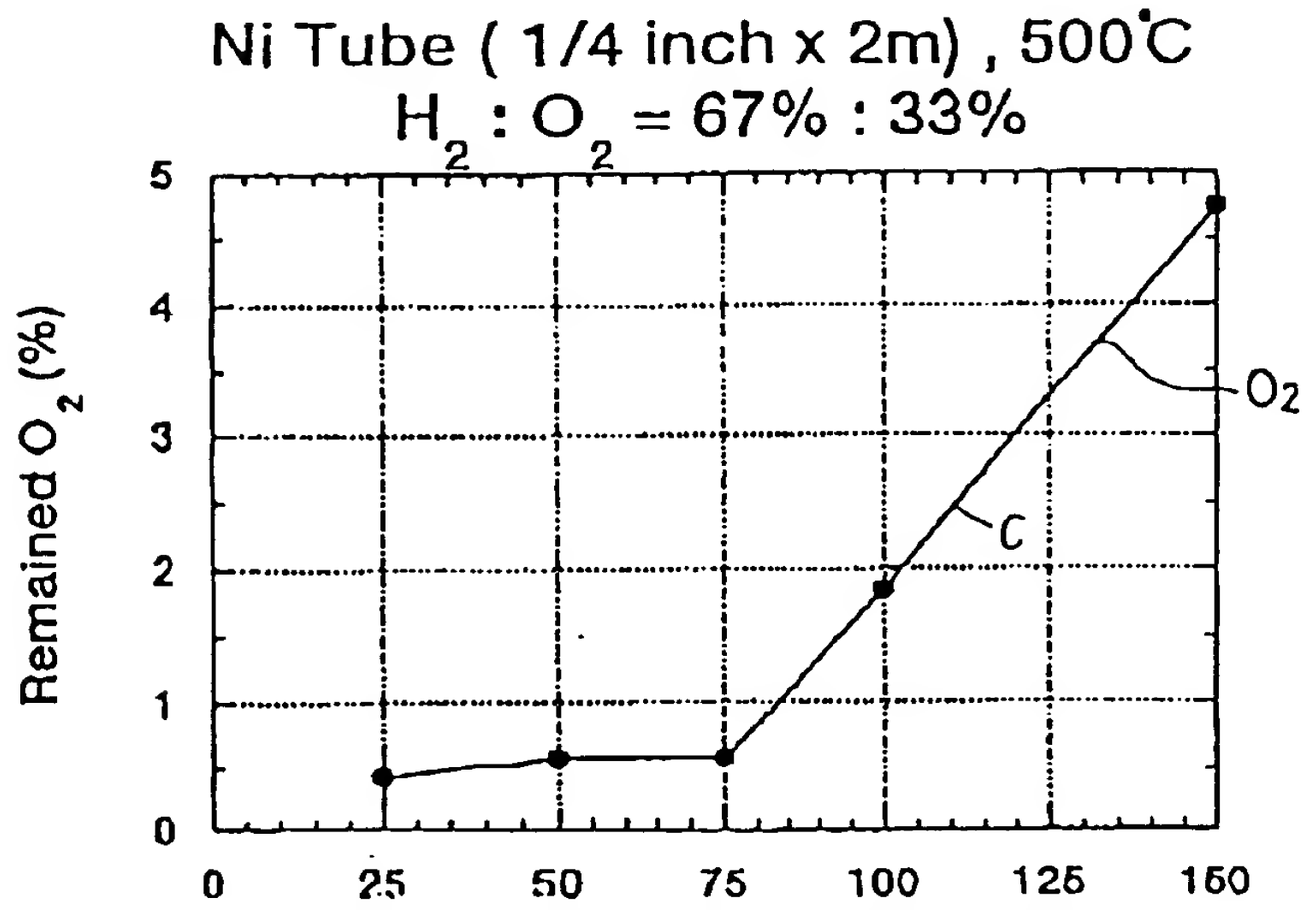


~~FIG 18~~ Fig. 18

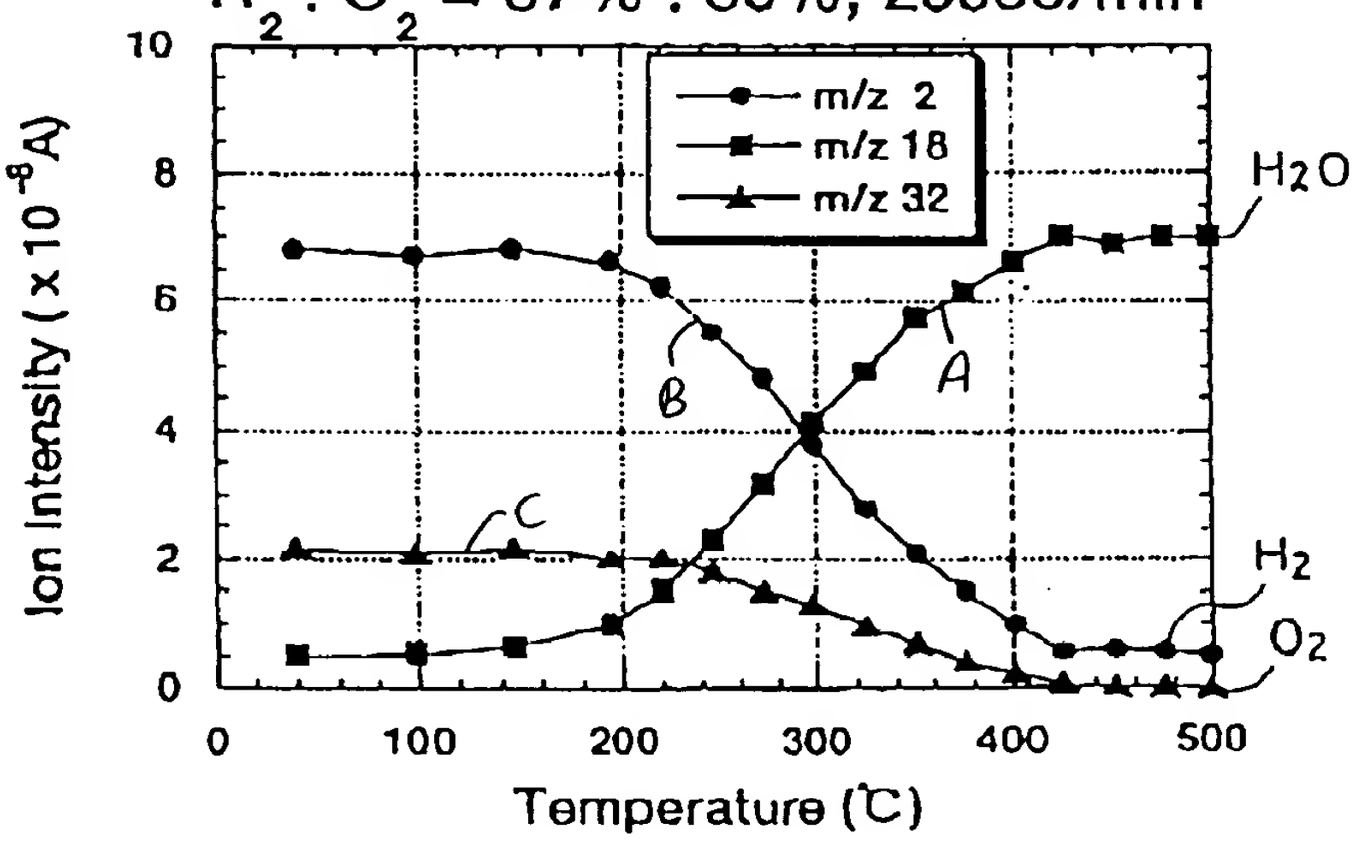


Fig, 19

~~19~~

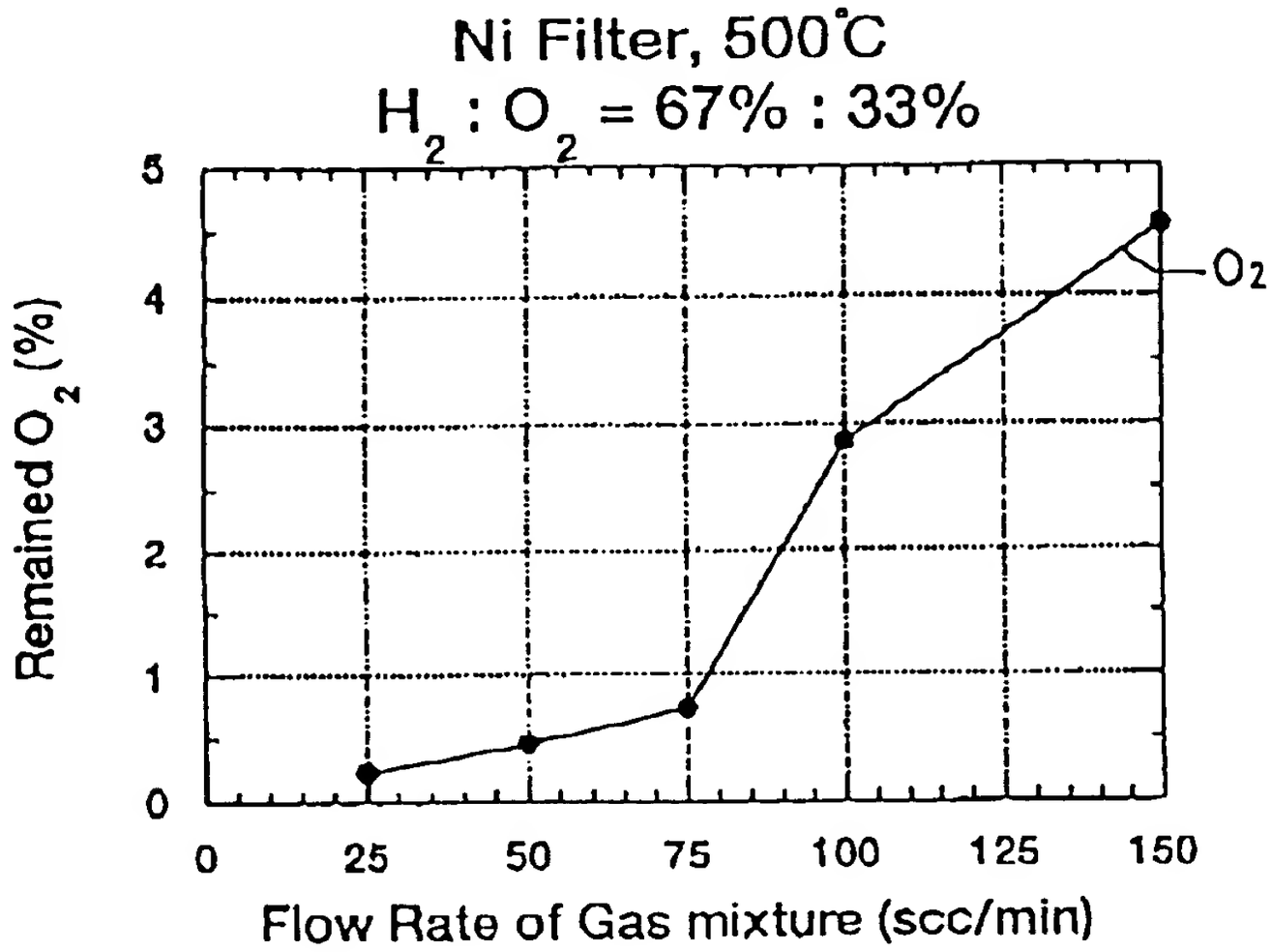


~~20~~ Fig, 20



~~FIG. 21~~

Fig. 21



~~図 22~~
Fig, 22

Ni Ribbon (t 0.3 x 20 x 1000mm)
$H_2 : O_2$ = 67% : 33%, 25scc/min

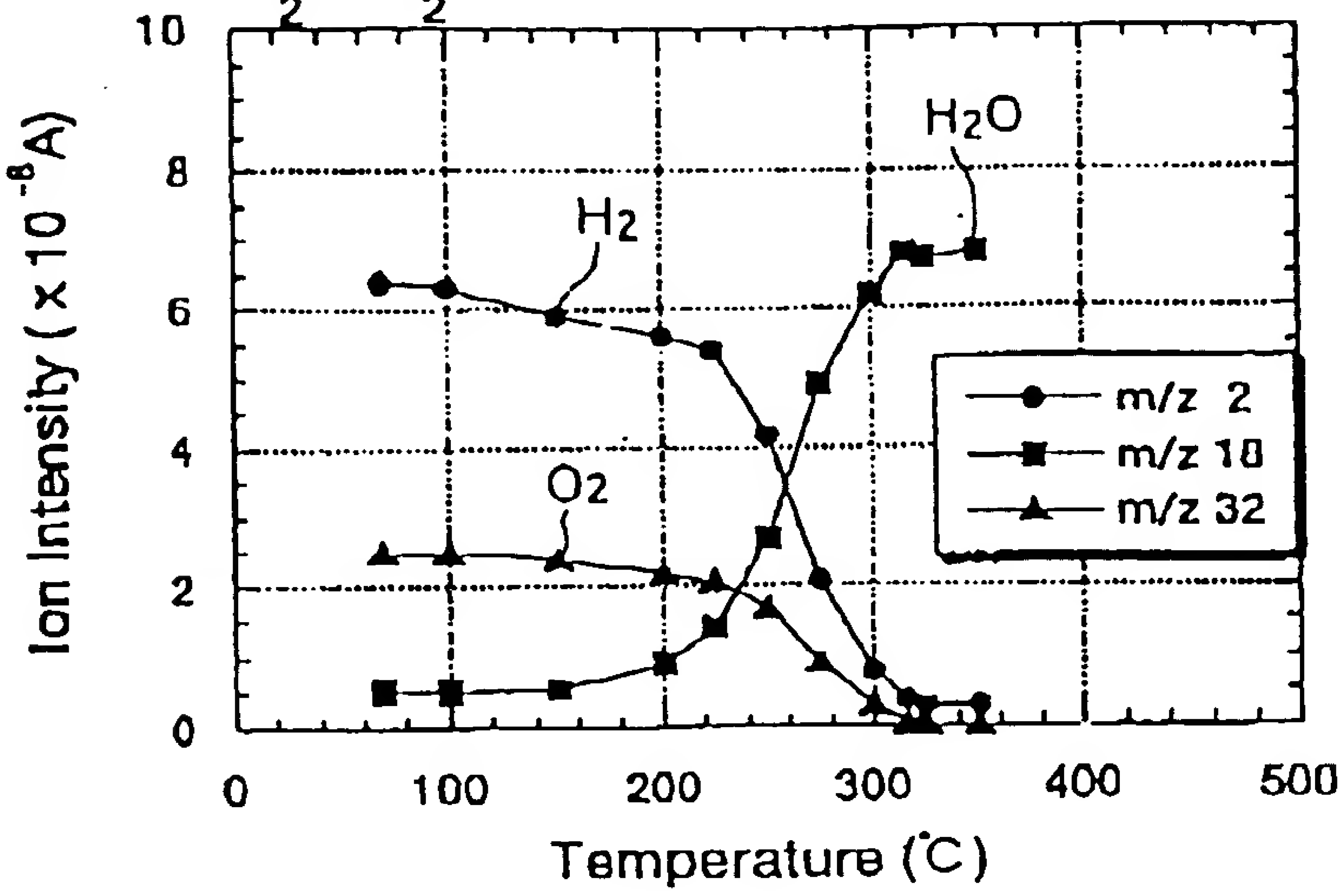
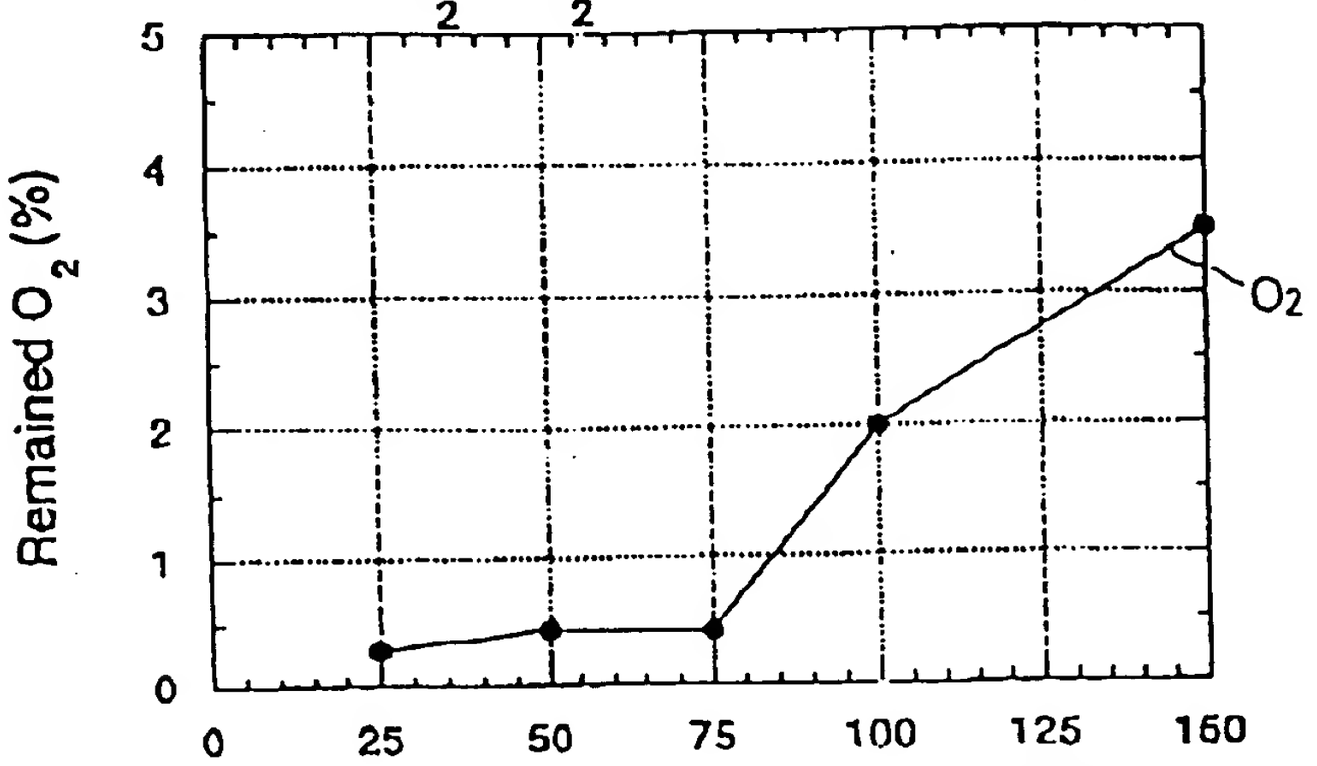
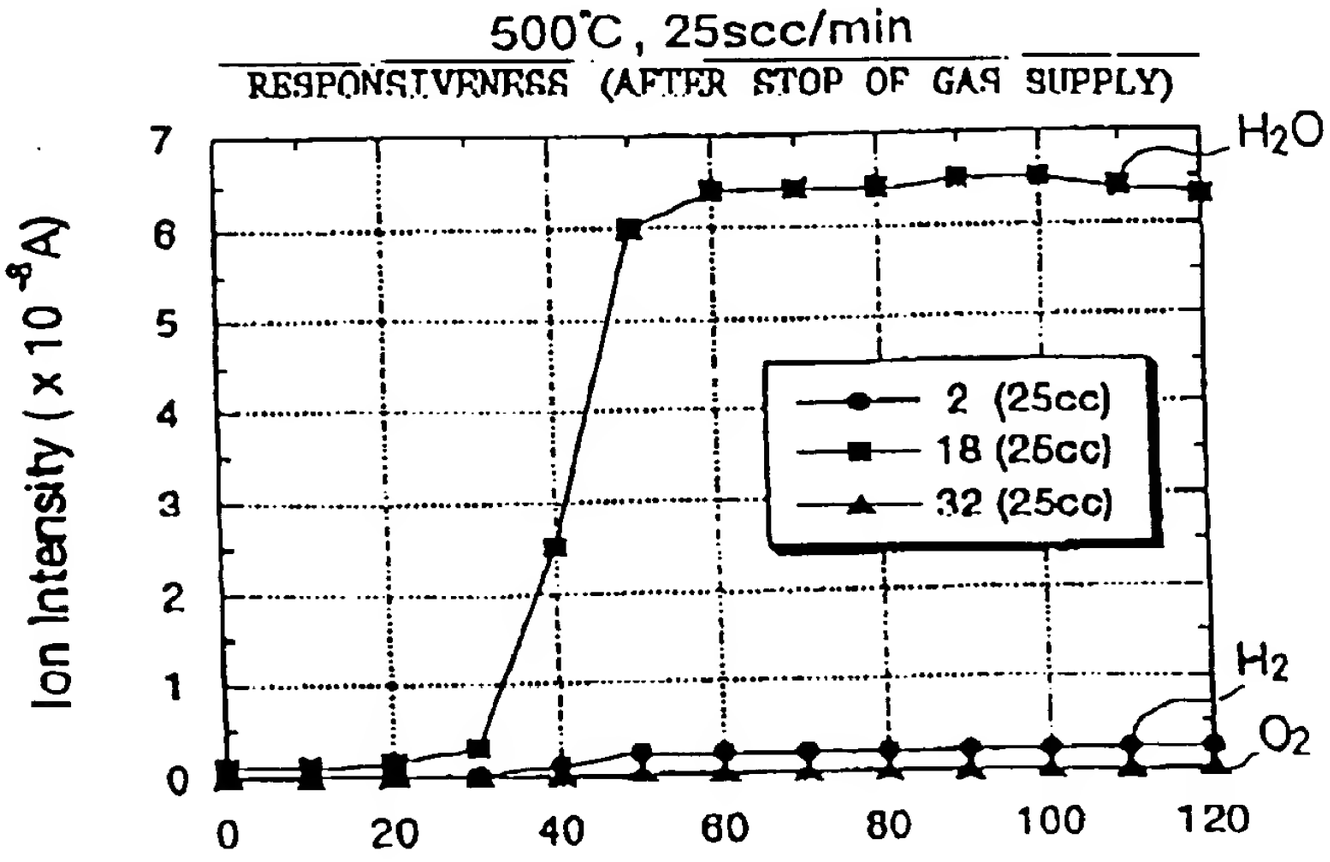


Fig. 23

~~23~~

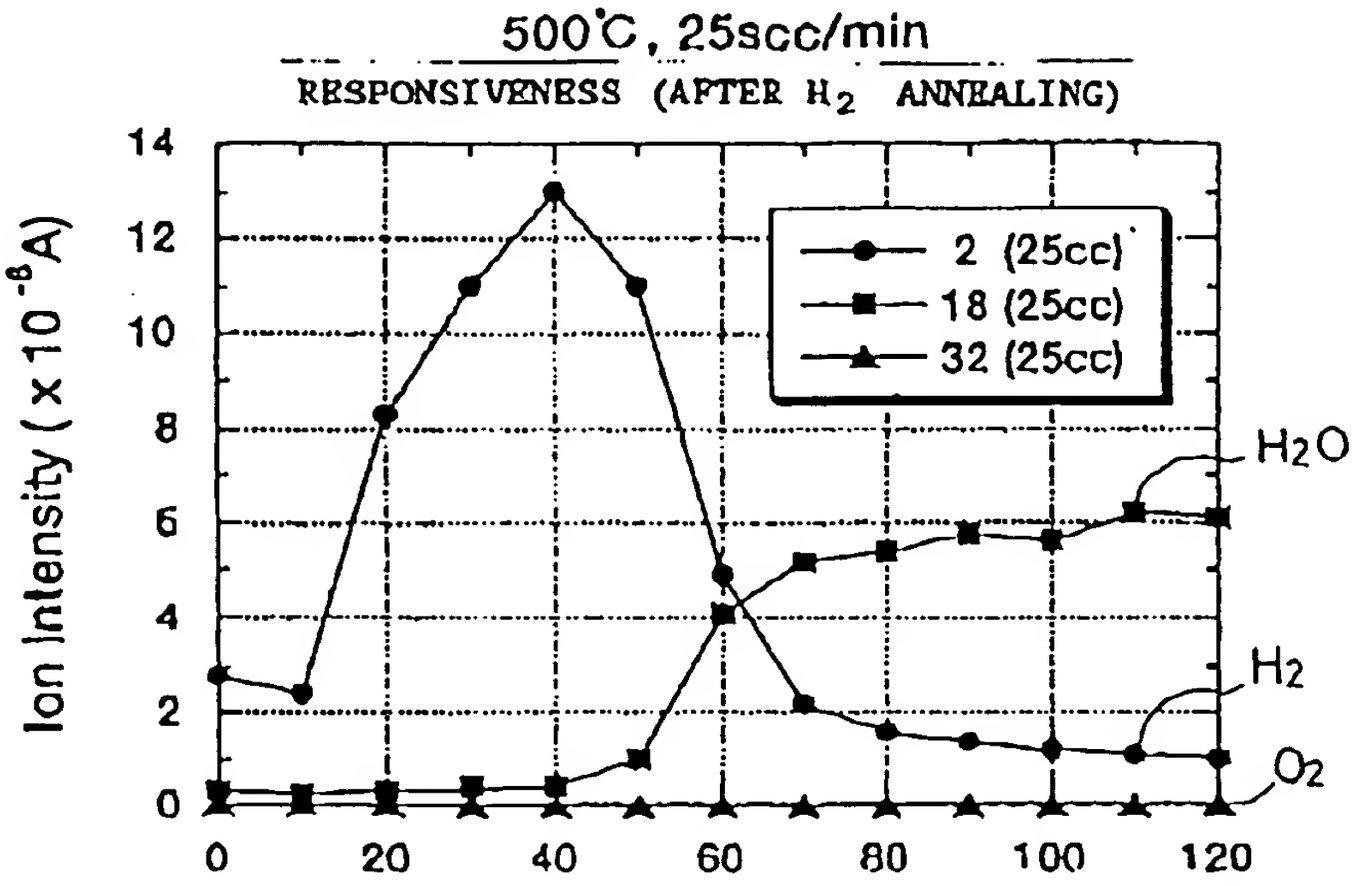


~~24~~ Fig. 24



Fig, 25

~~25~~



~~26~~ Fig, 26

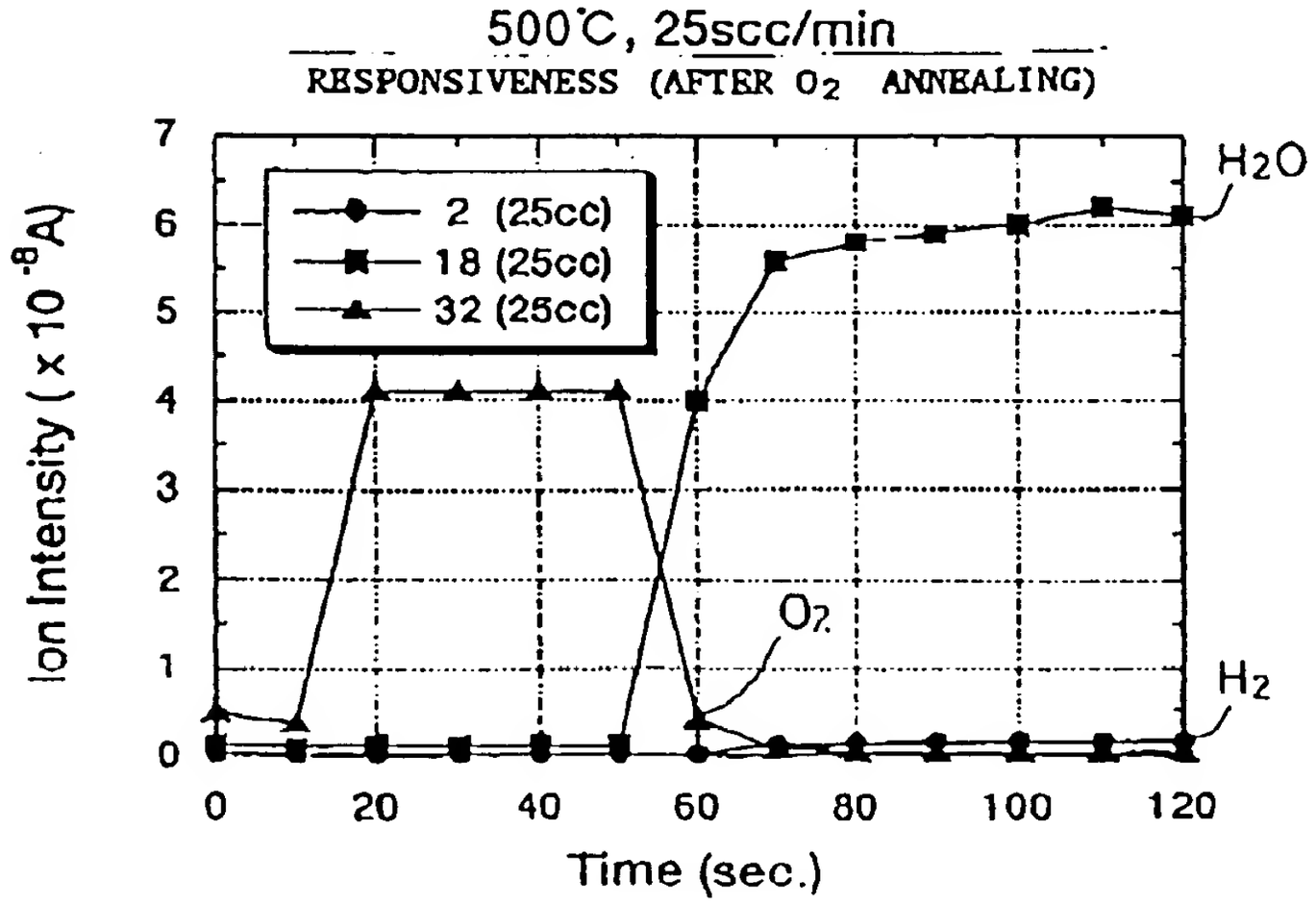


Fig.27

~~Fig. 27~~

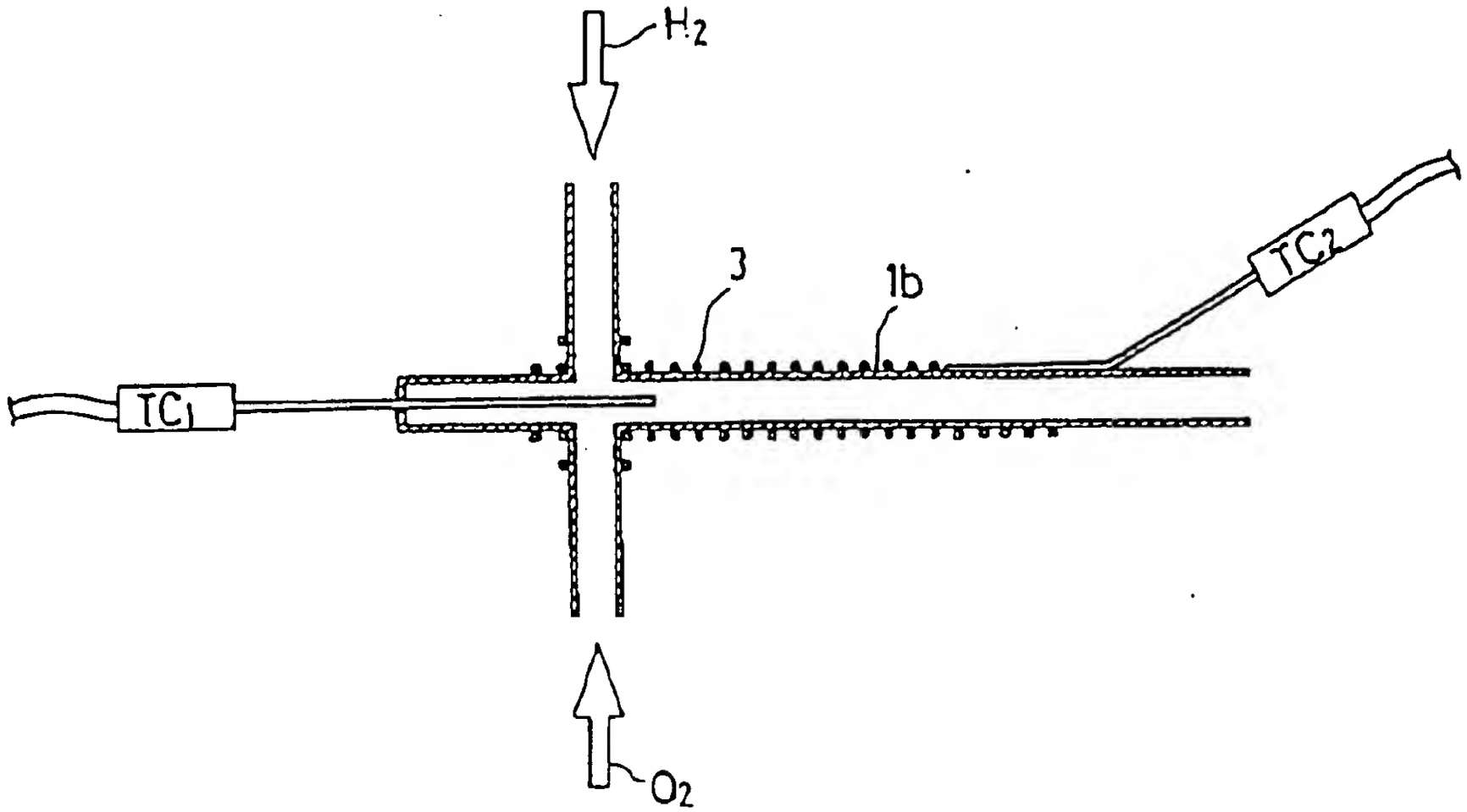


Fig. 28

~~Fig 28~~

$H_2 : O_2 = 2 : 1$

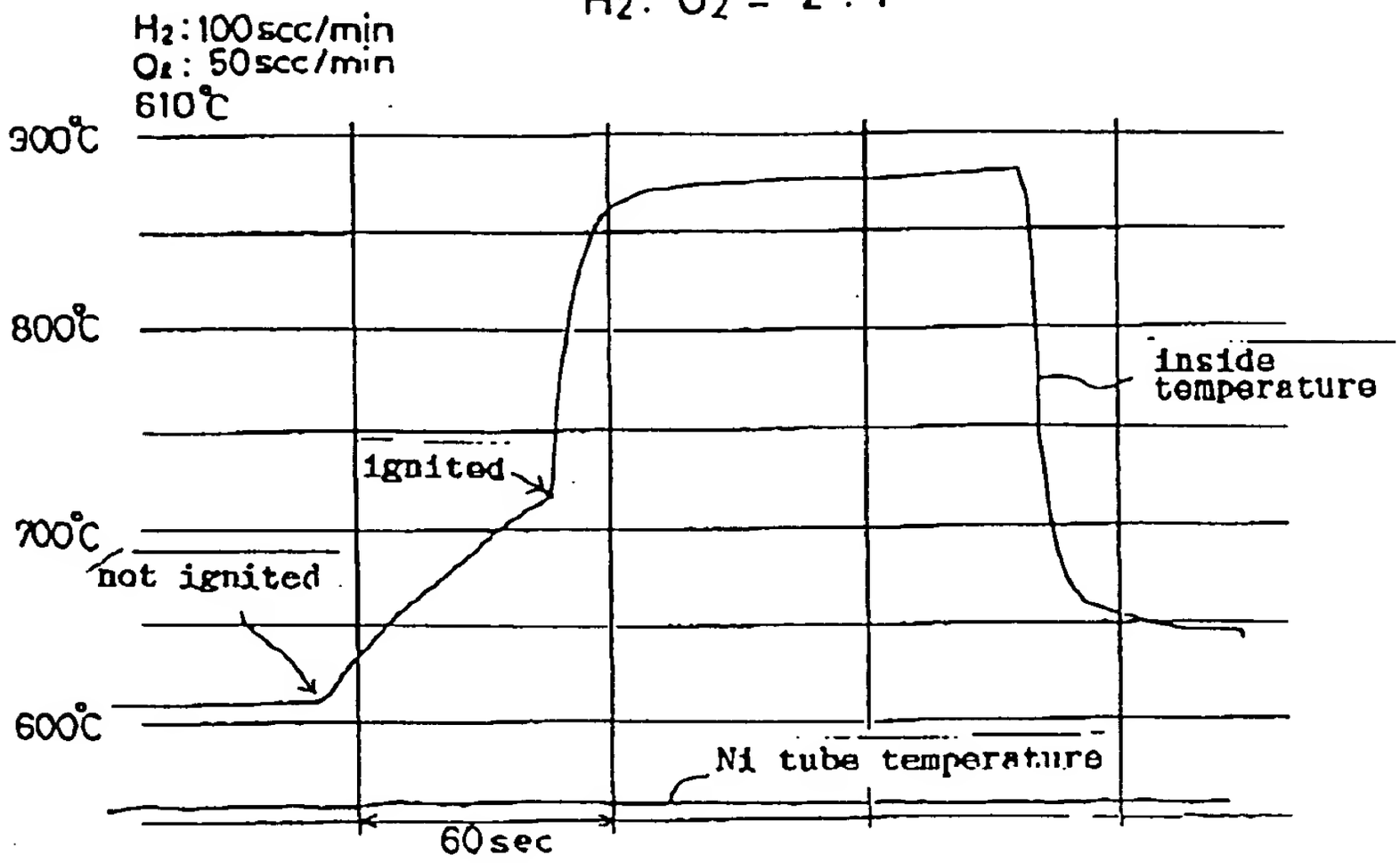
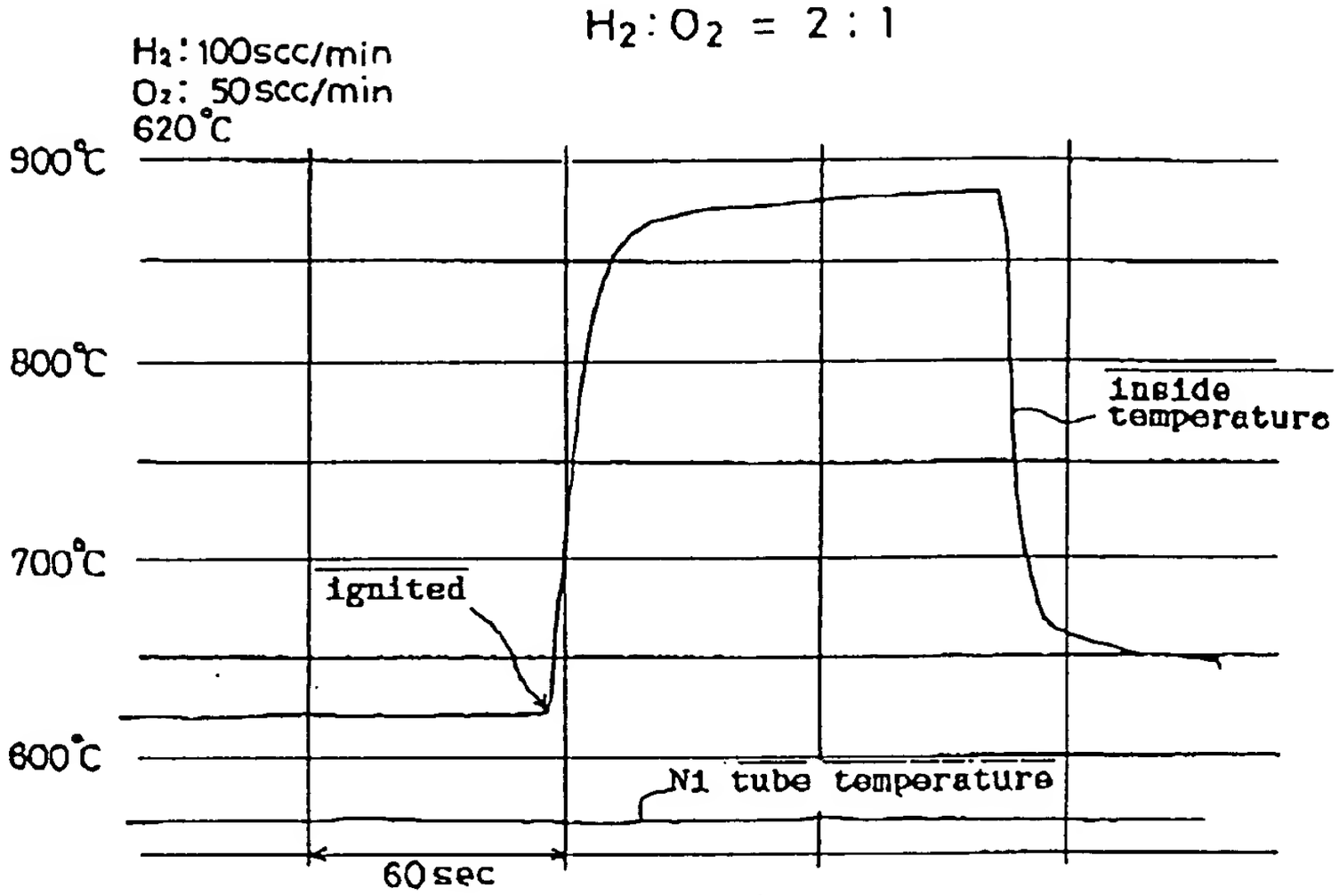


Fig. 29

~~29~~

$H_2 : O_2 = 2 : 1$



~~30~~ Fig. 30

$H_2 : O_2 = 3 : 1$

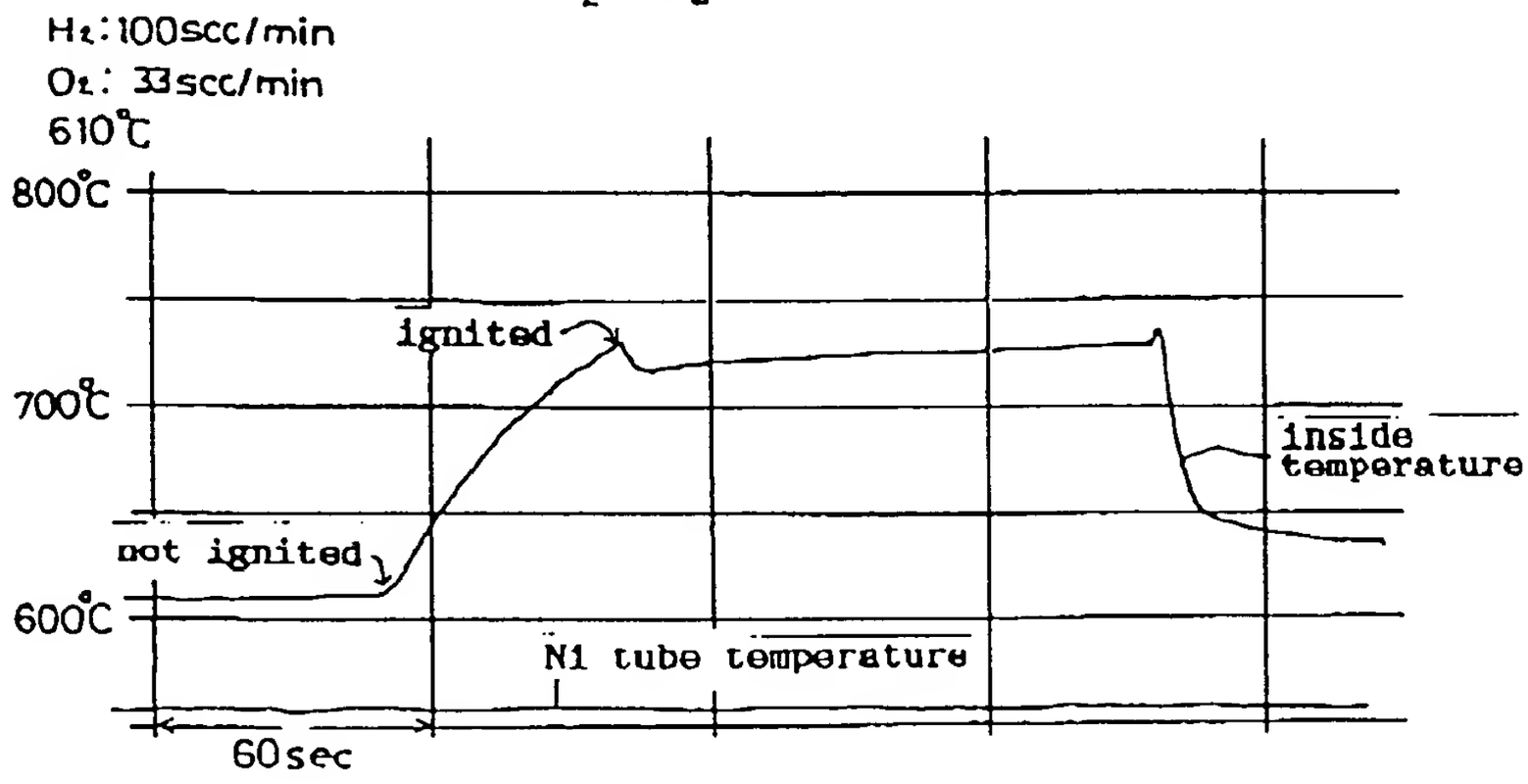


Fig. 37

$H_2 : O_2 = 3 : 1$

H_2: 100scc/min
O_2: 33scc/min
620°C

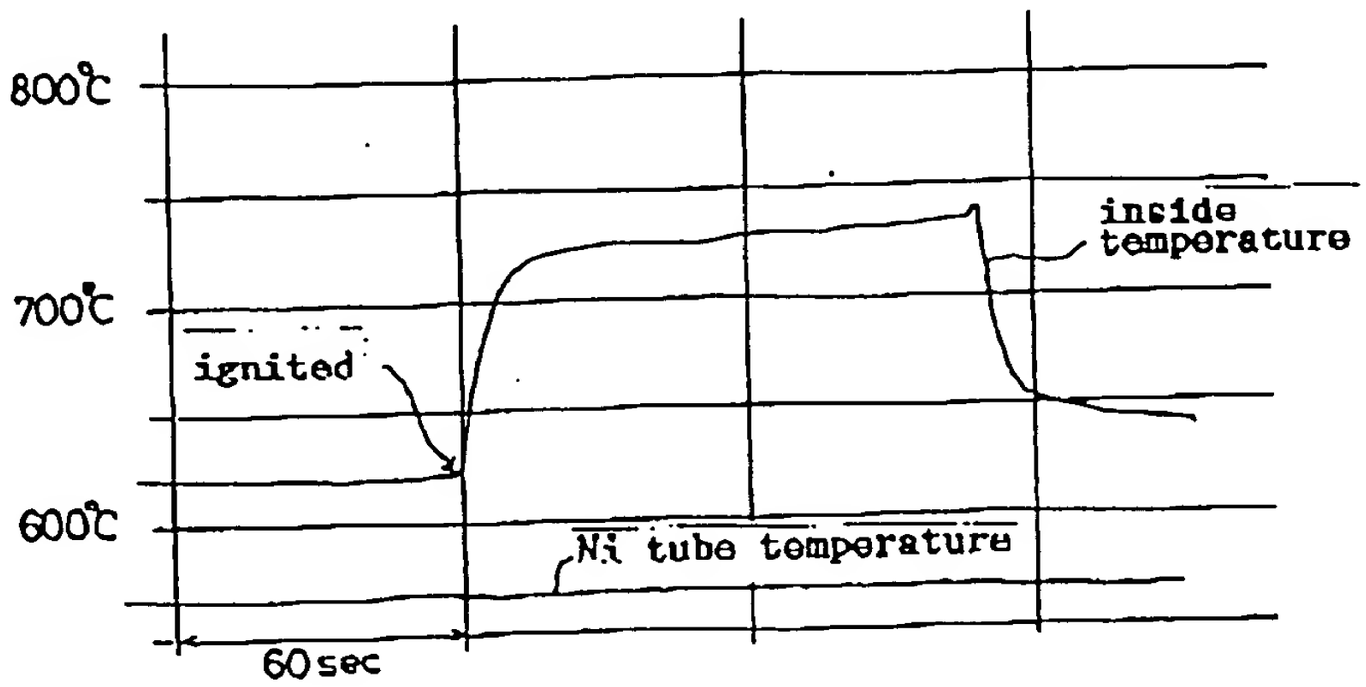


Fig. 32

$H_2 : O_2 = 4 : 3$

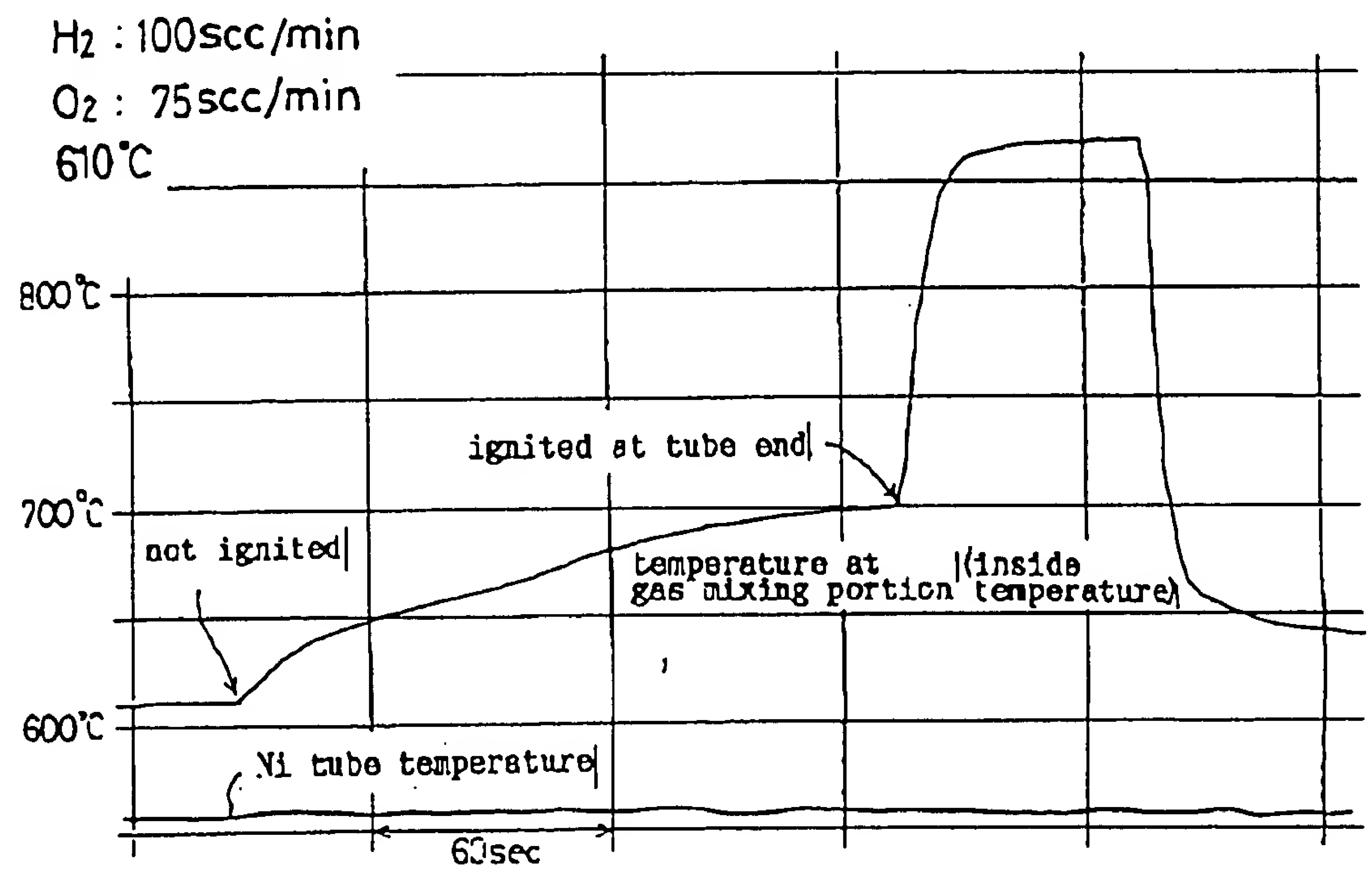
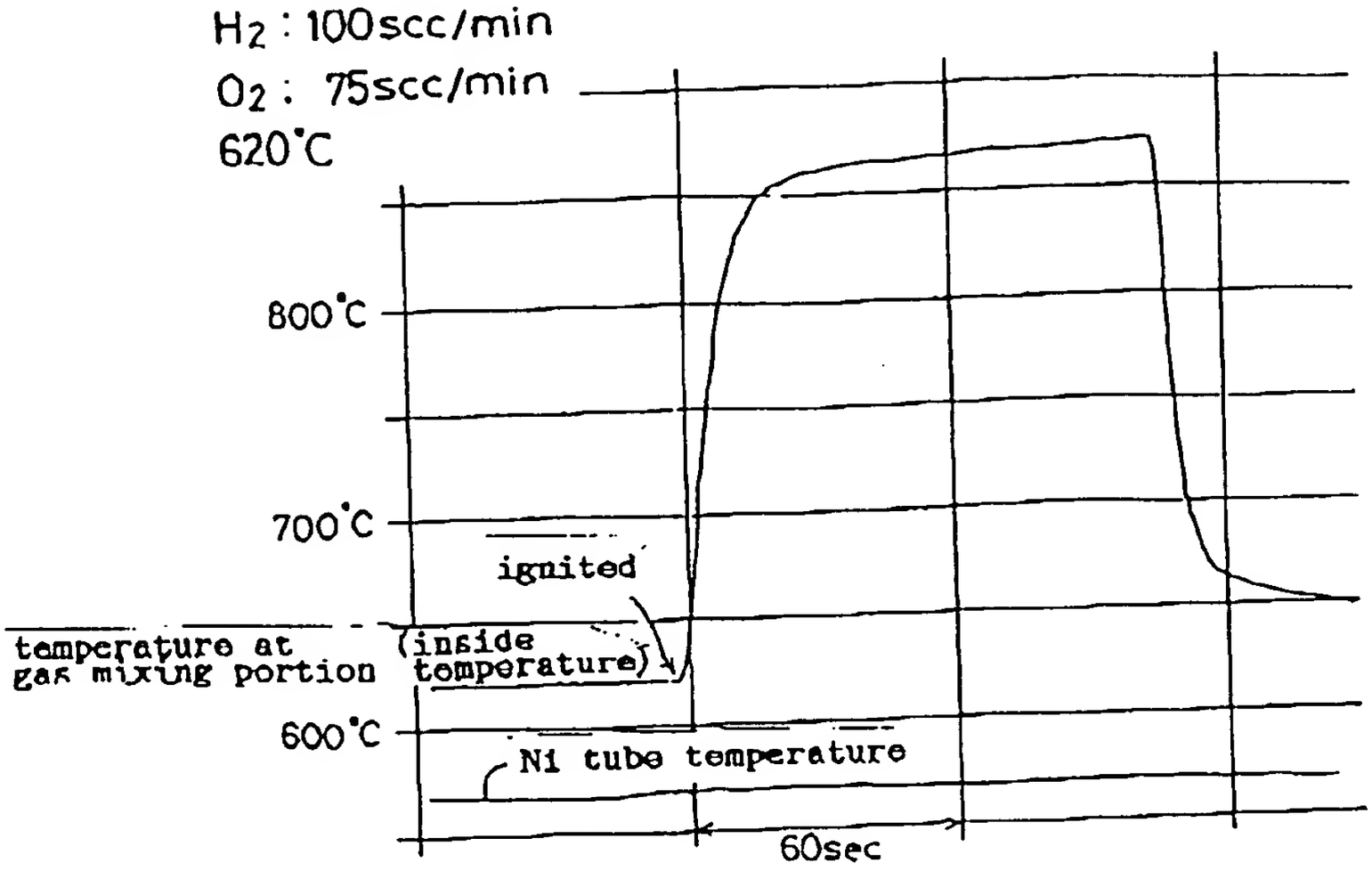


Fig. 33

~~図 33~~



~~図 34~~

Fig. 34

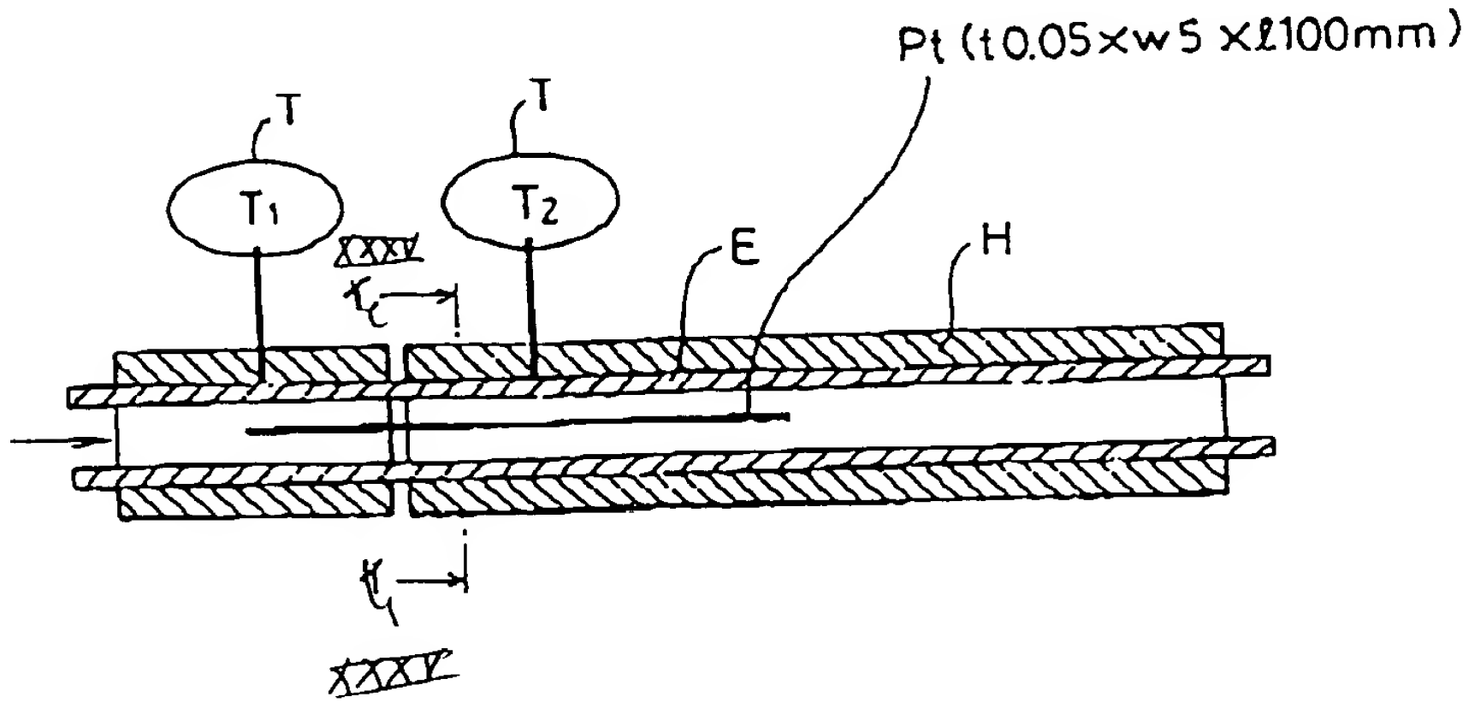
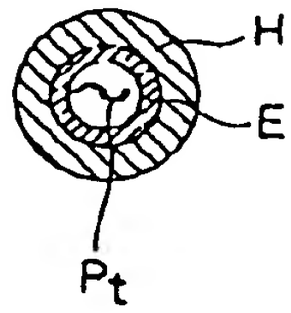
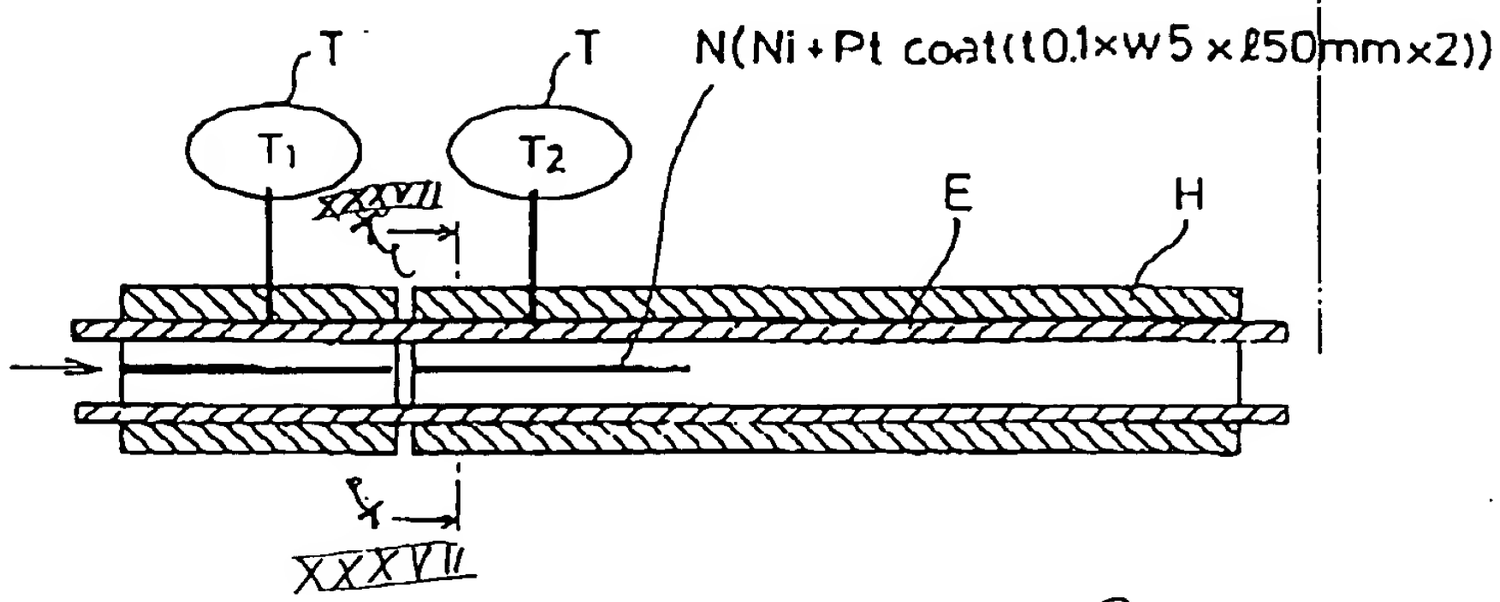


Fig. 35

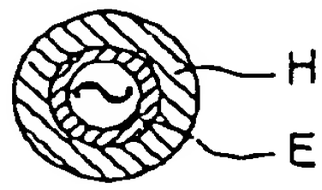
~~35~~



~~36~~ Fig. 36

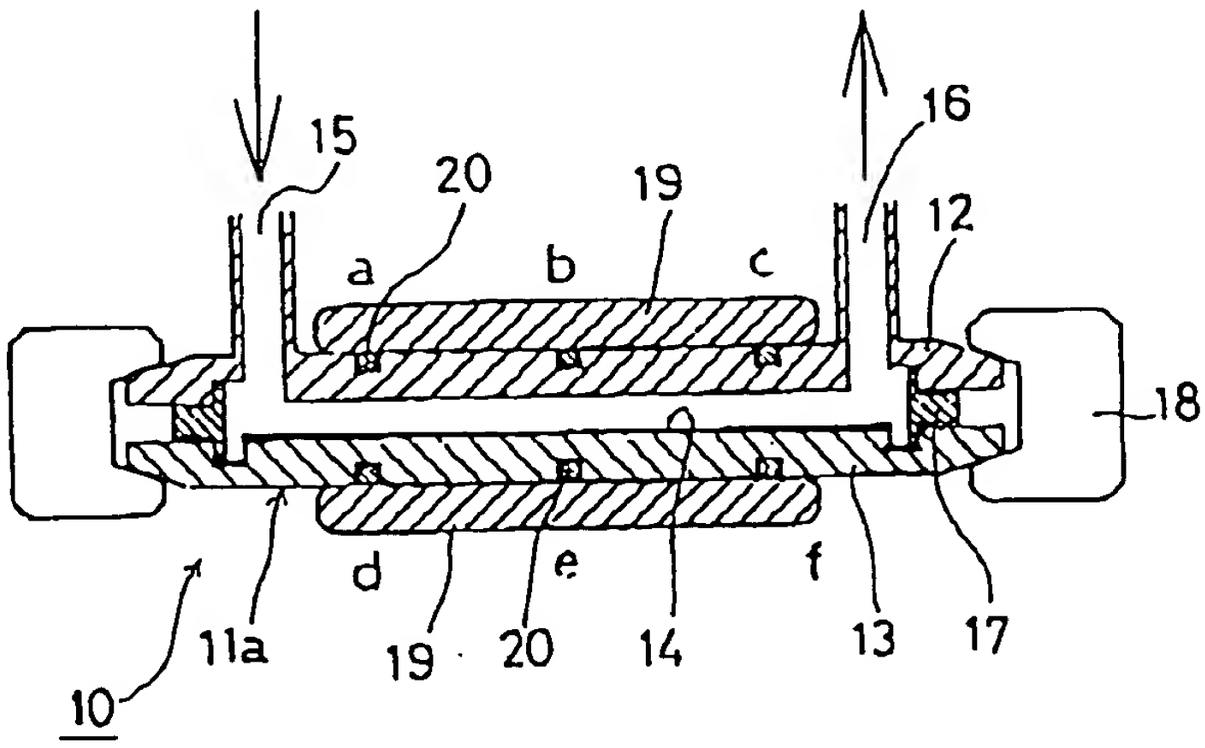


~~37~~ Fig. 37



Fig, 38

~~38~~



~~38~~ Fig, 39

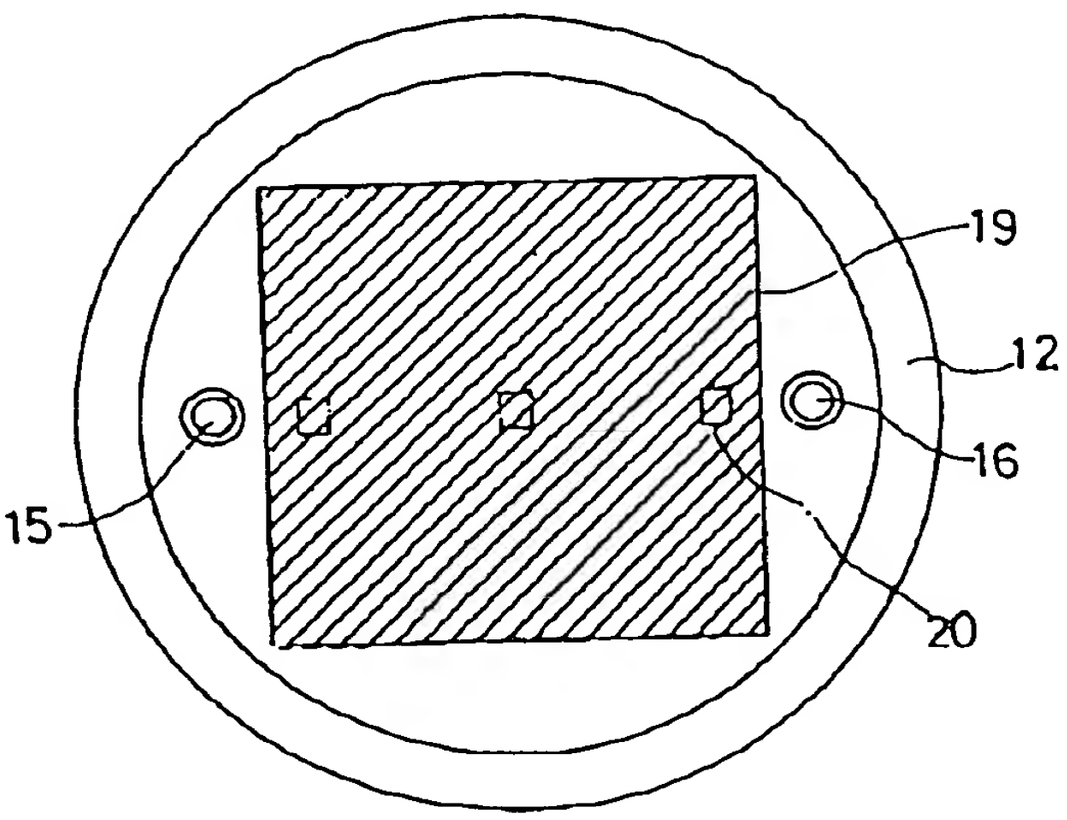


Fig. 40

~~40~~

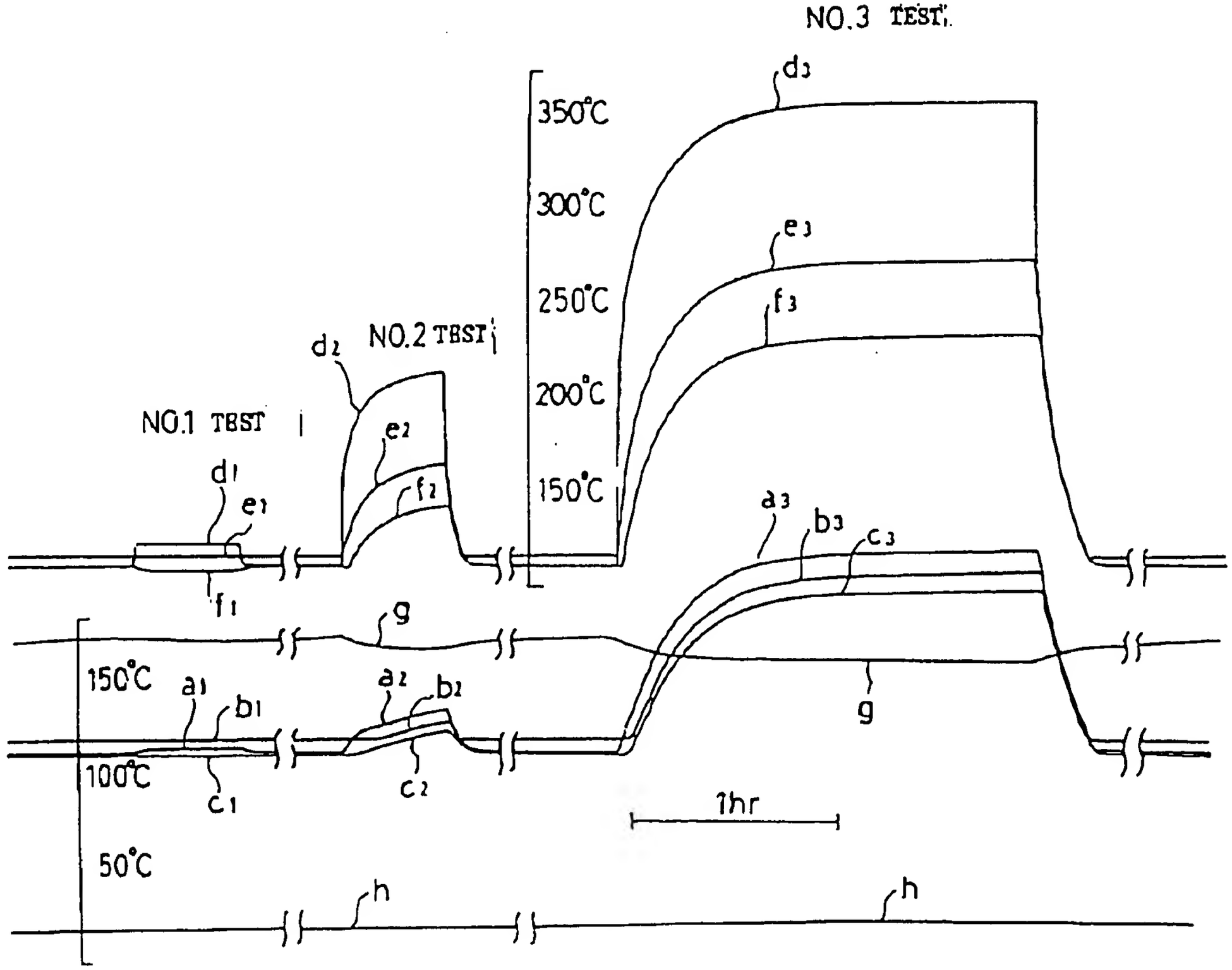

NO.3 TEST
NO.2 TEST
NO.1 TEST
350°C
300°C
250°C
200°C
150°C
150°C
100°C
50°C
d3
e3
f3
d2
e2
f2
d1
e1
f1
a3
b3
c3
a2
b2
a1
b1
c2
c1
g
g
h
h
1hr

Fig. 4

~~41~~

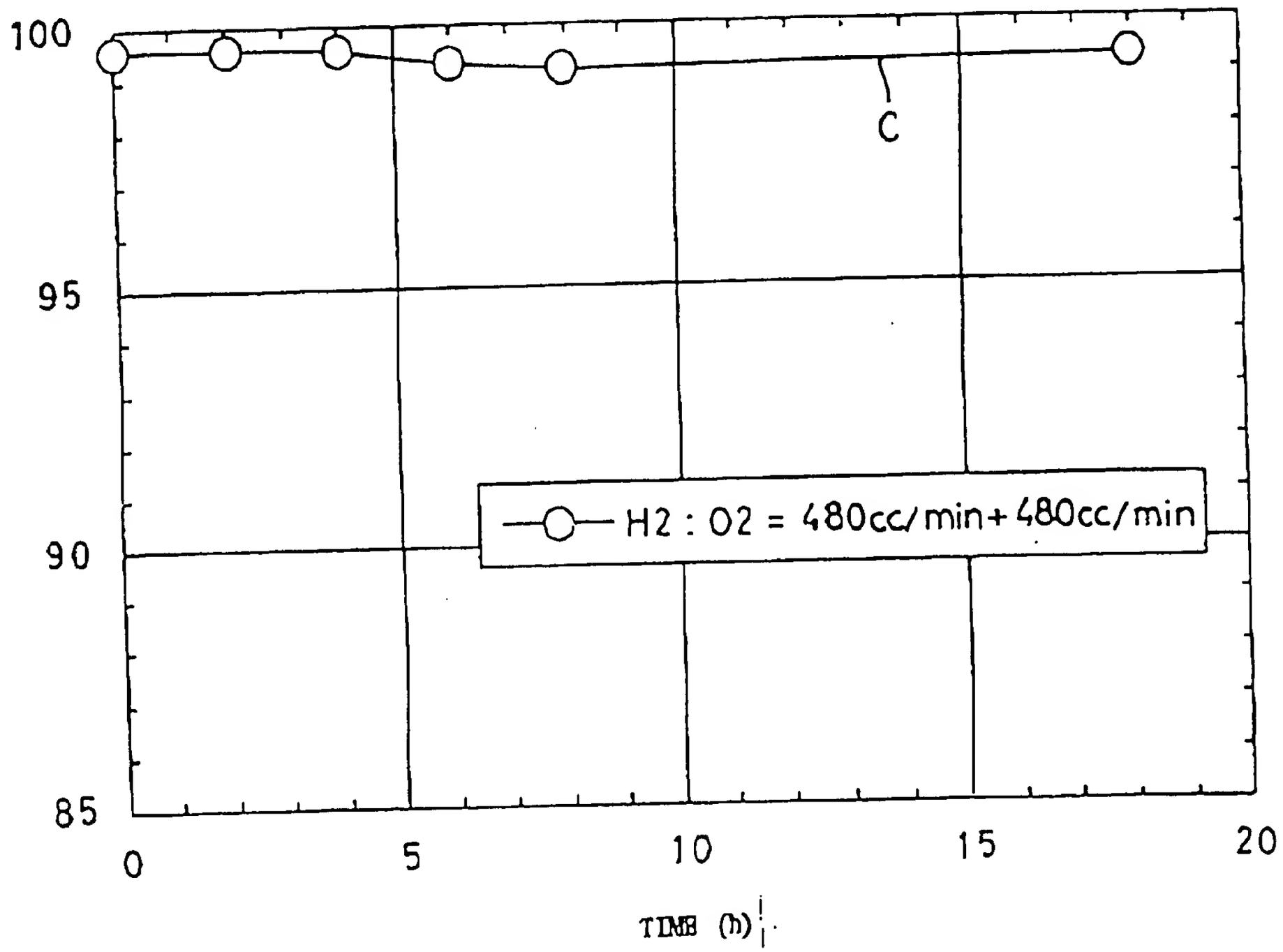

100
95
90
85
0
5
10
15
20
C
H2 : O2 = 480cc/min+480cc/min
REACTION RATE (%)
TIME (h)

Fig. 42

~~42~~

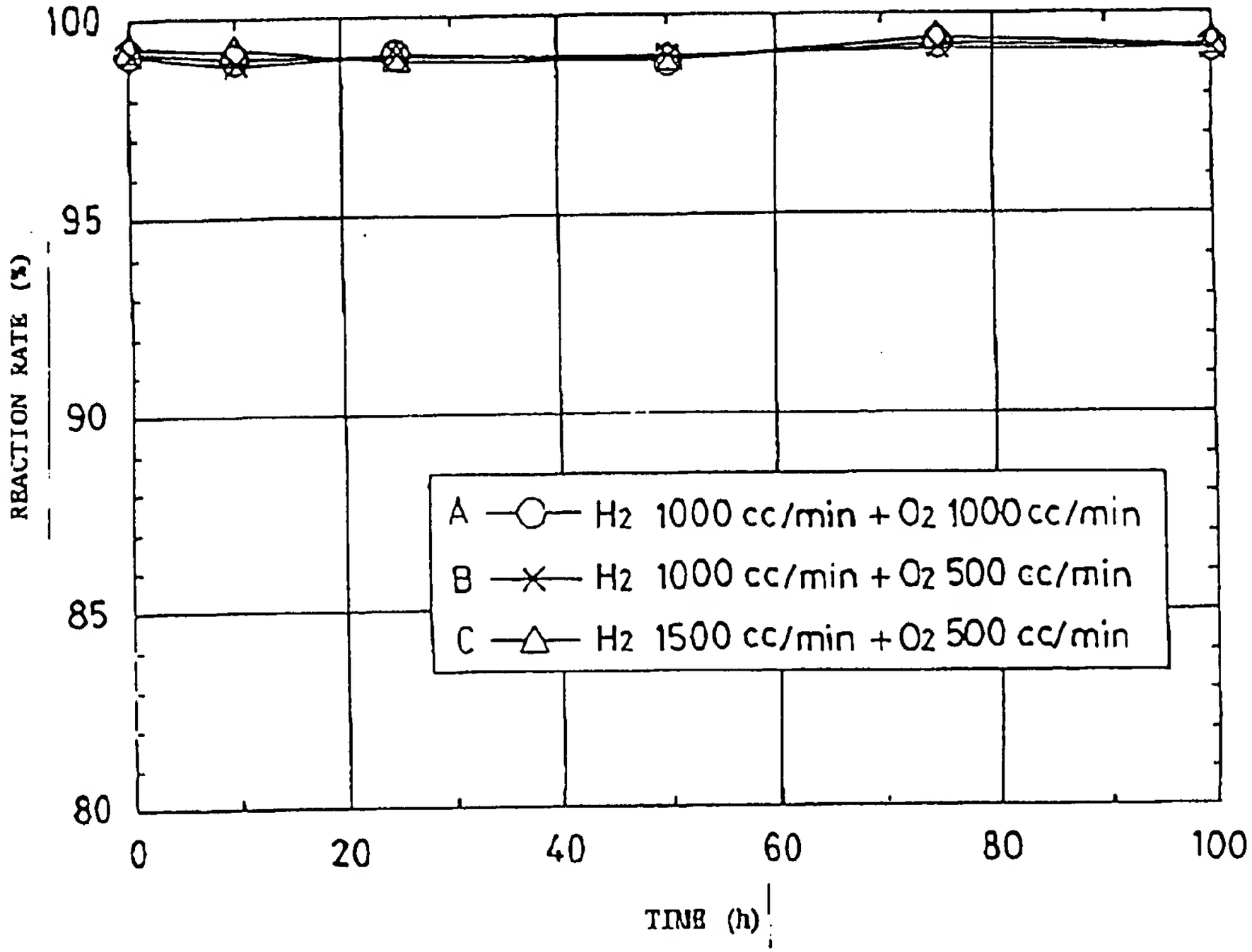
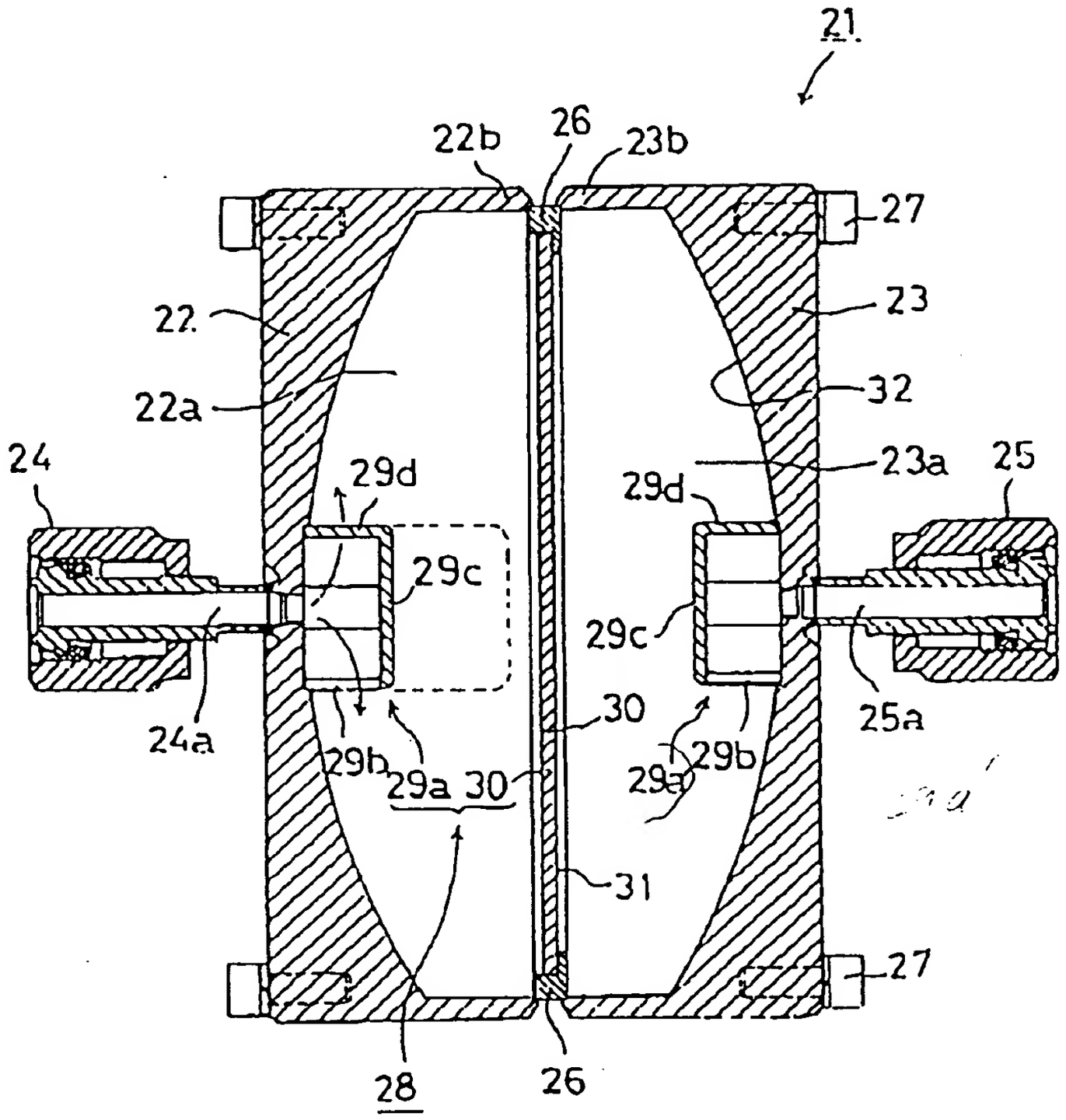


Fig. 43


21
22b
26
23b
27
22
23
22a
32
24
29d
23a
25
29d
29c
29c
30
24a
29b
29a 30
29a
29b
25a
31
27
28
26

~~44~~

Fig. 44

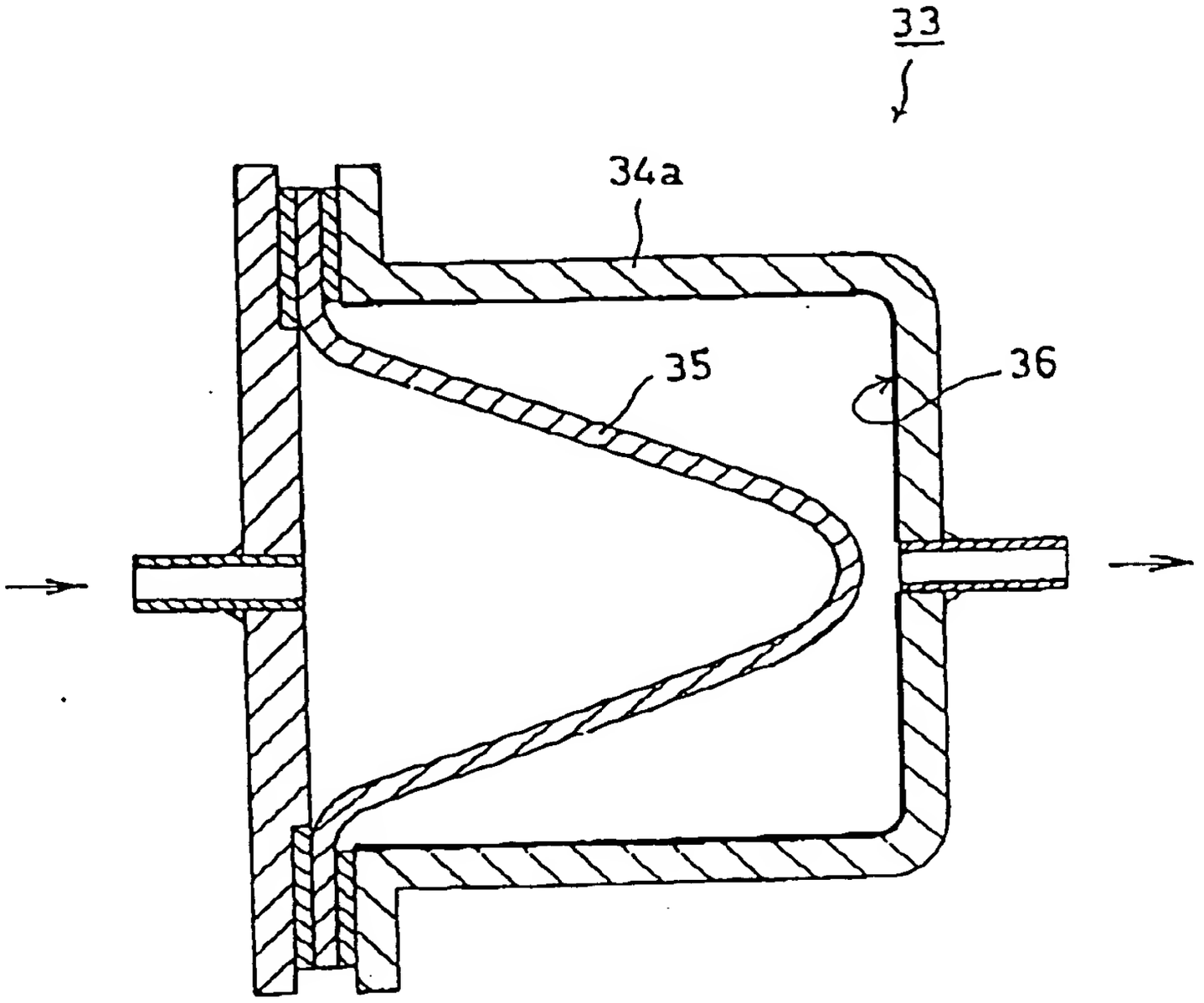


Fig. 45

~~FIG~~ 45

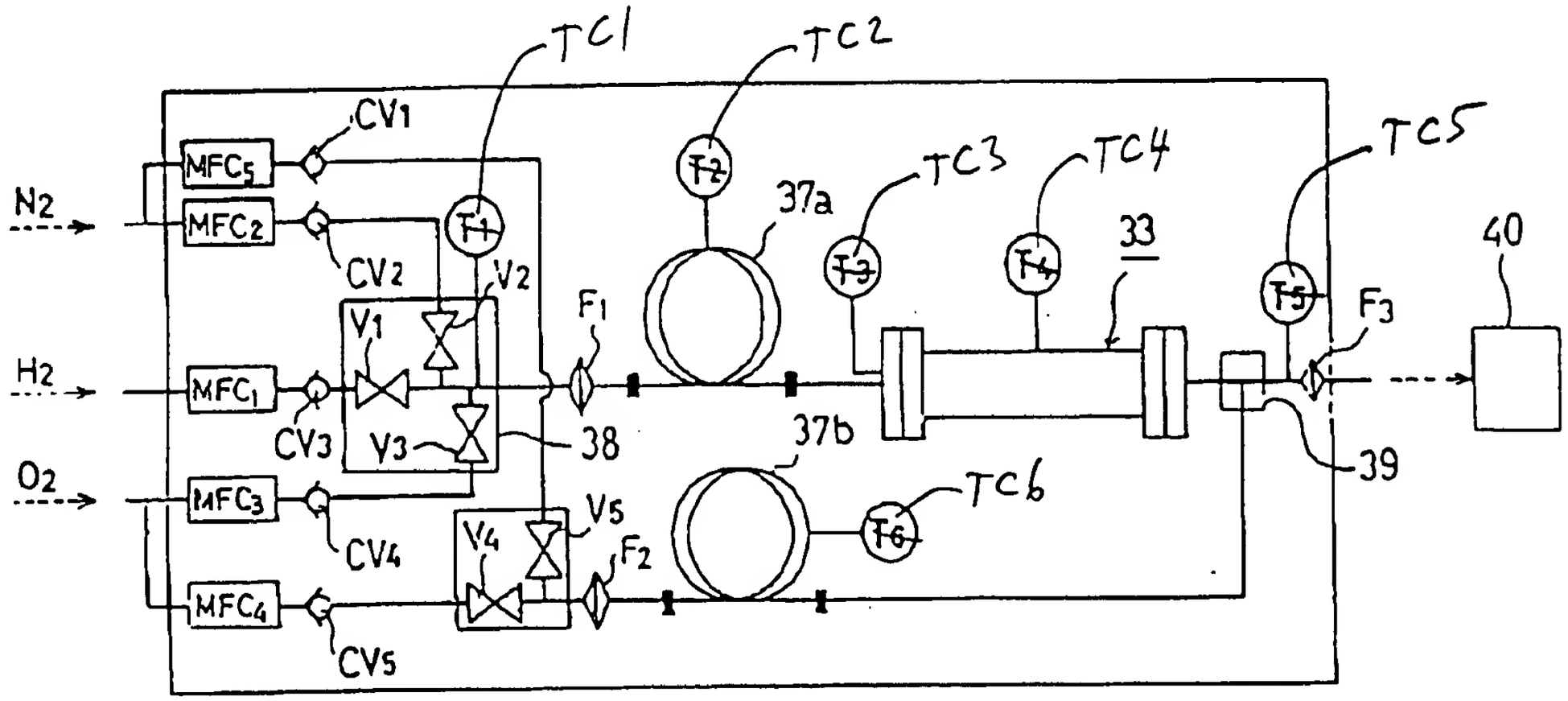
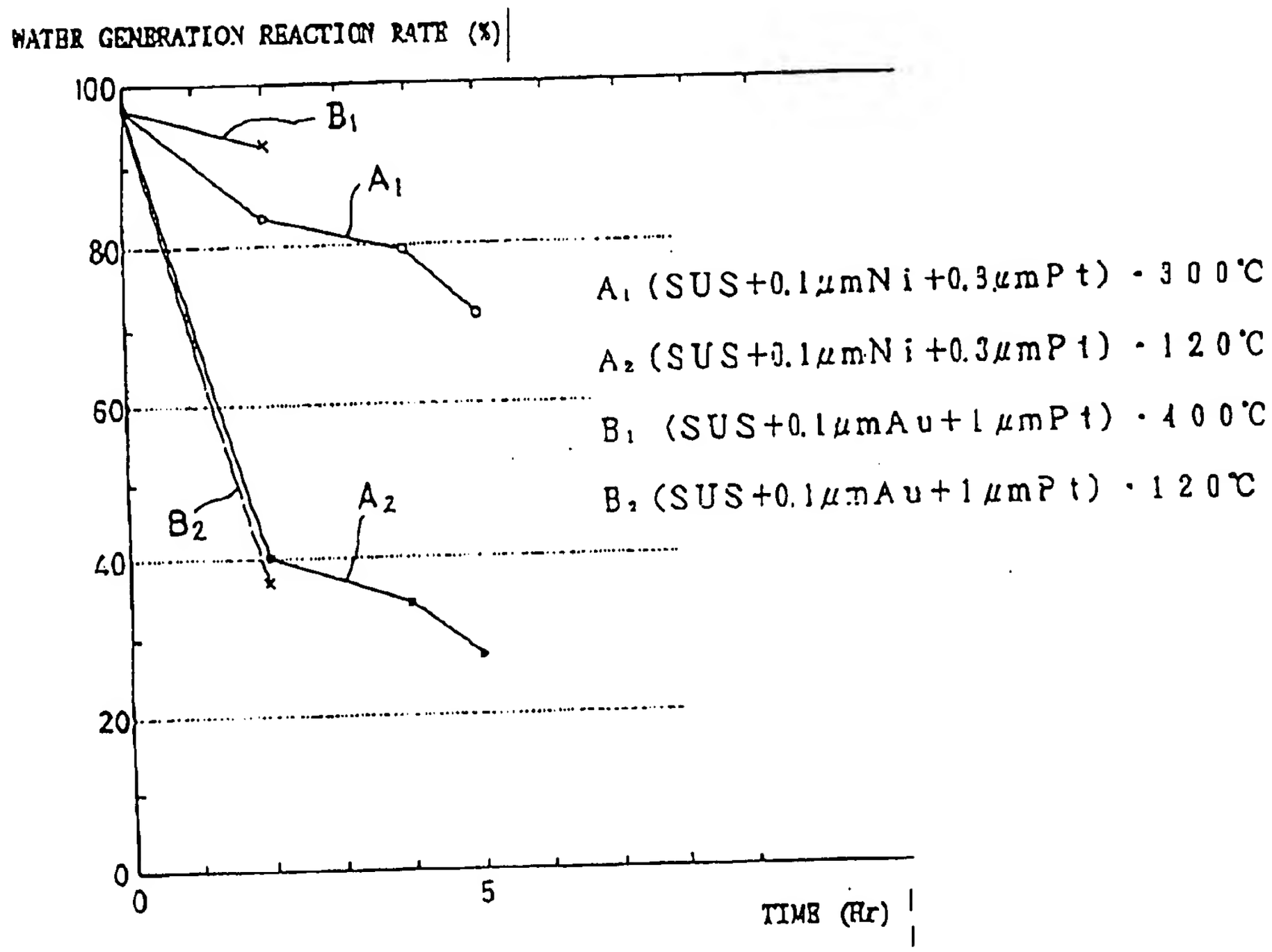

TC1
TC2
CV1
MFC5
N2
MFC2
CV2
F1
V2
V1
H2
MFC1
CV3
V3
38
O2
MFC3
CV4
V4
V5
F2
MFC4
CV5
37a
37b
TC3
TC4
TC5
TC6
33
40
F3
39
T1
T2
T3
T4
T5
T6

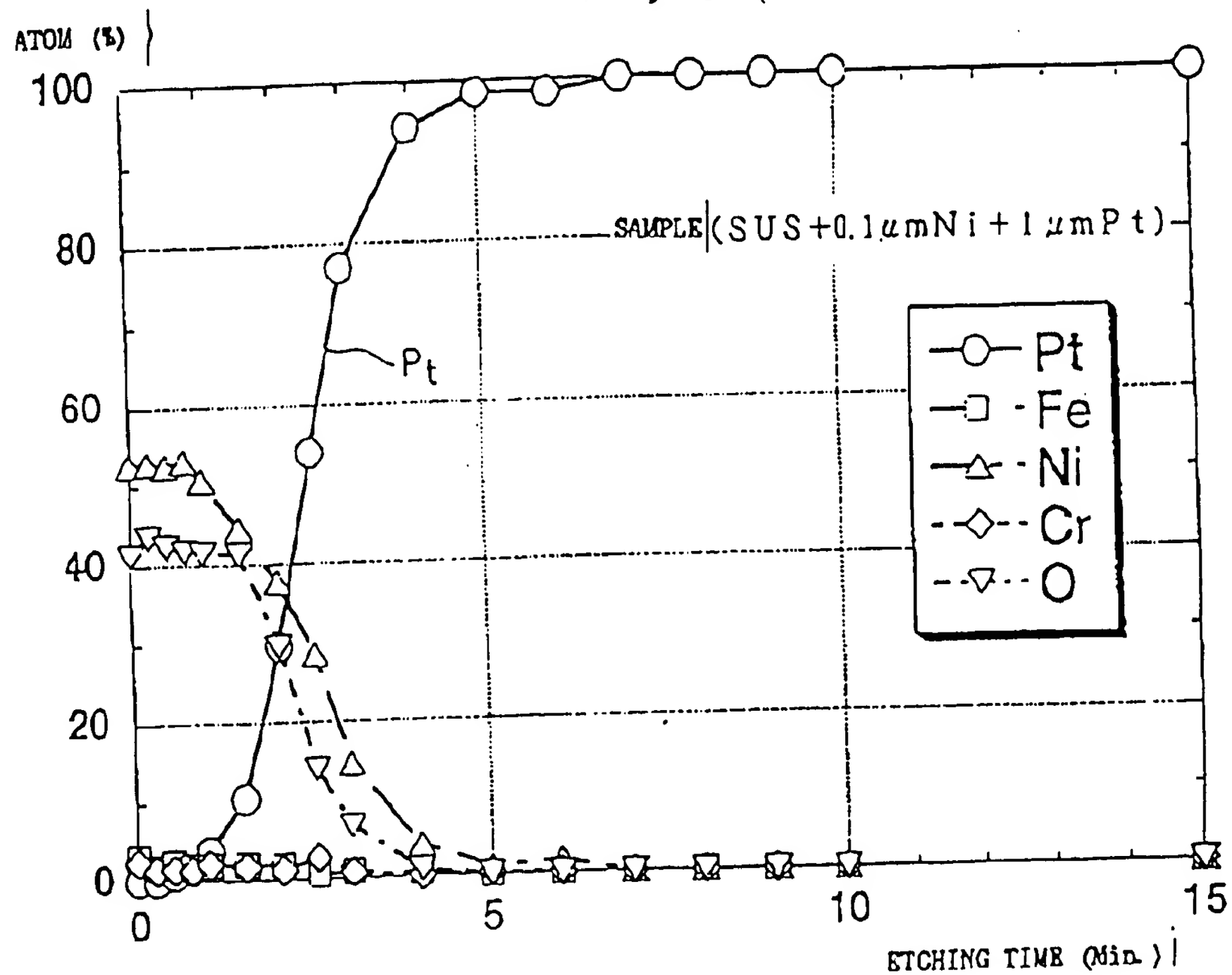
Fig.46

~~FIG 46~~

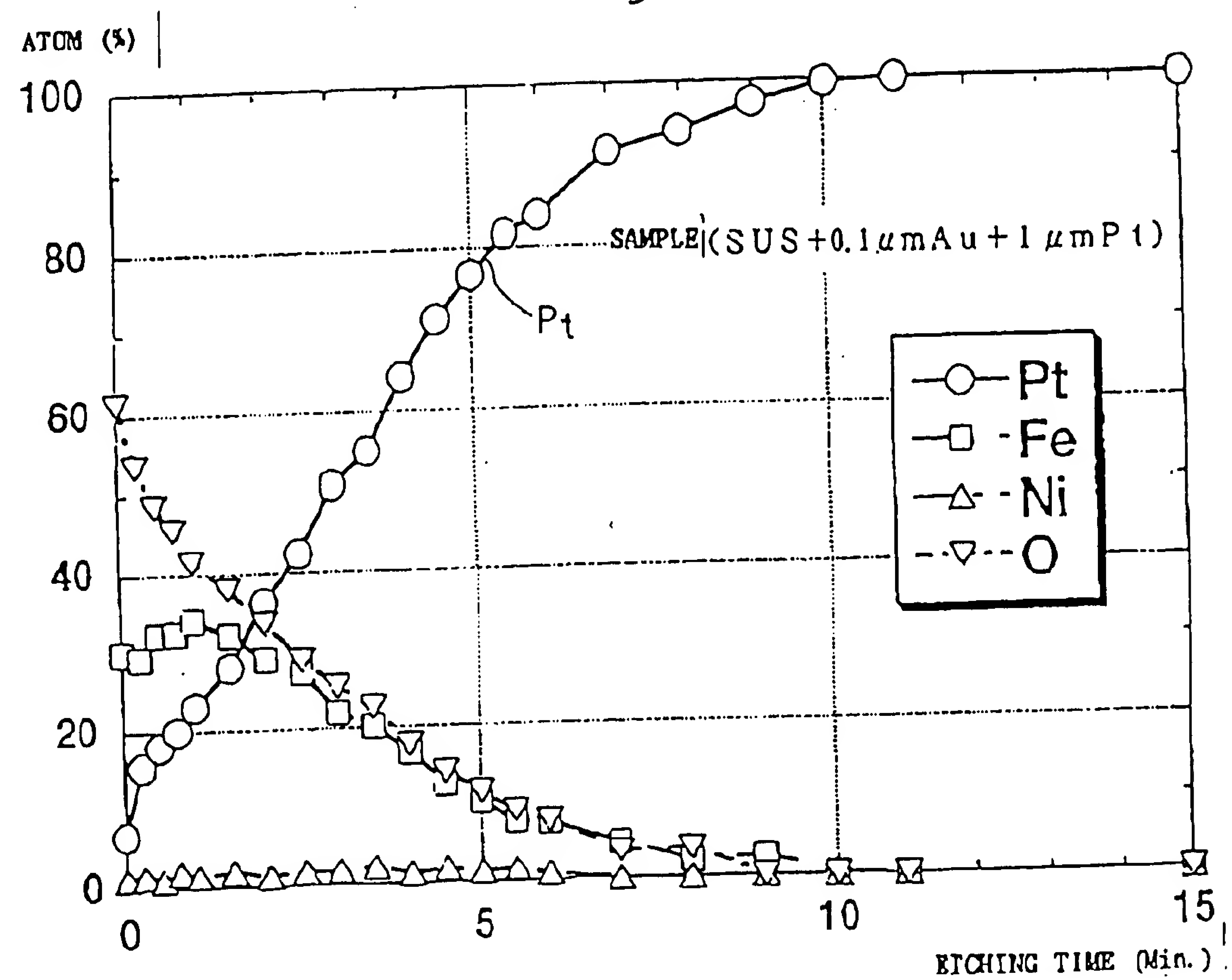


~~図 47~~

Fig.47



~~図 18~~
Fig.48



ATOM (%)
100
80
60
40
20
0
0
5
10
15
ETCHING TIME (Min.)
SAMPLE (SUS+0.1μmAu+1μmPt)
Pt
Pt
Fe
Ni
O

~~Fig. 49~~

Fig. 49

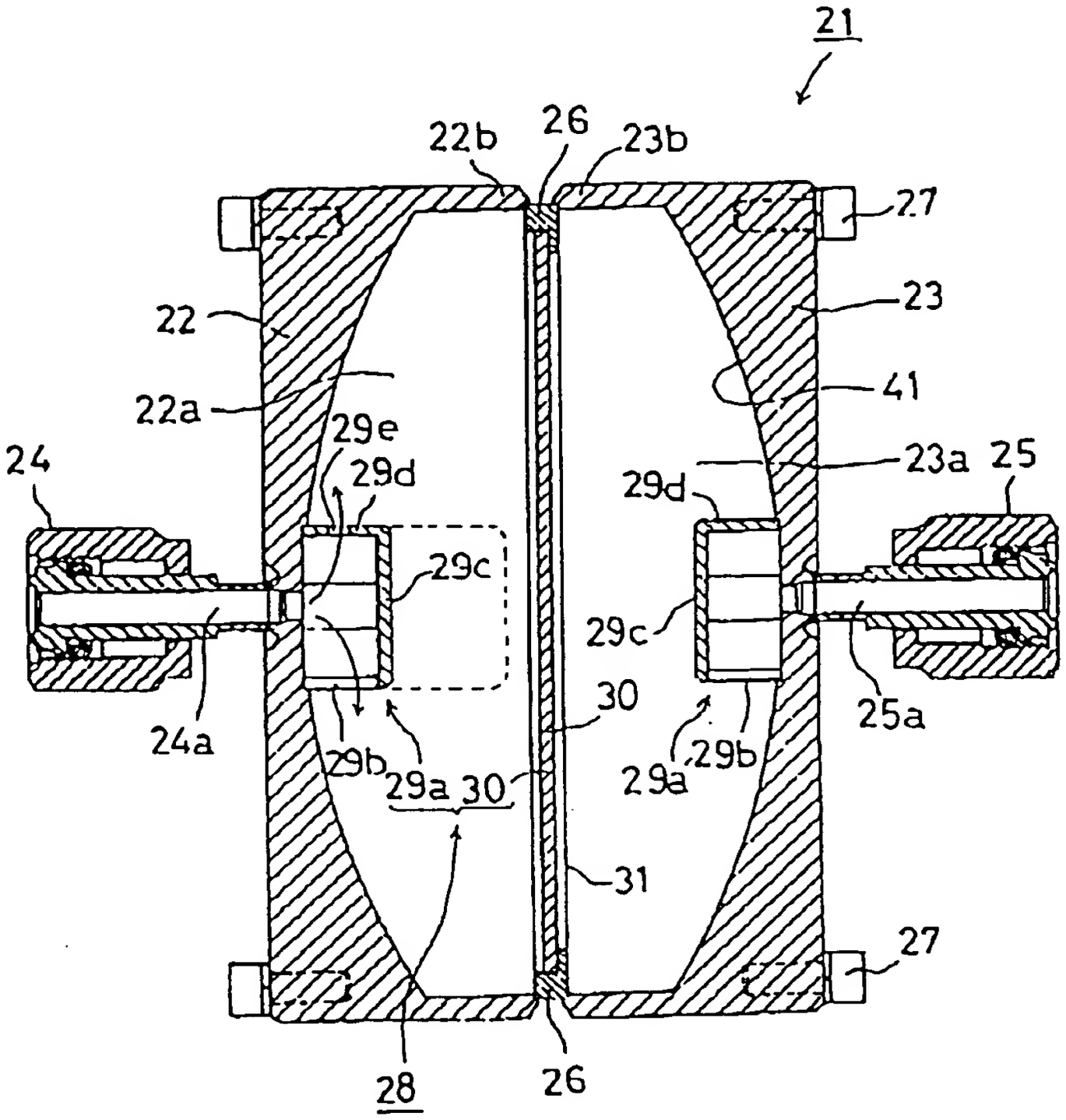

21
22b
26
23b
27
22
23
22a
41
29e
29d
23a
25
24
29d
29c
29c
30
24a
25a
29b
29a
30
29a
29b
31
27
28
26

Fig. 50

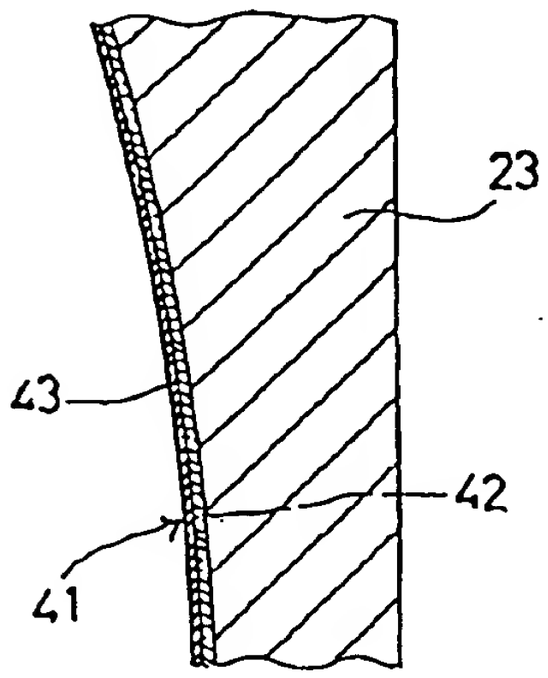


Fig.51

~~Fig.51~~

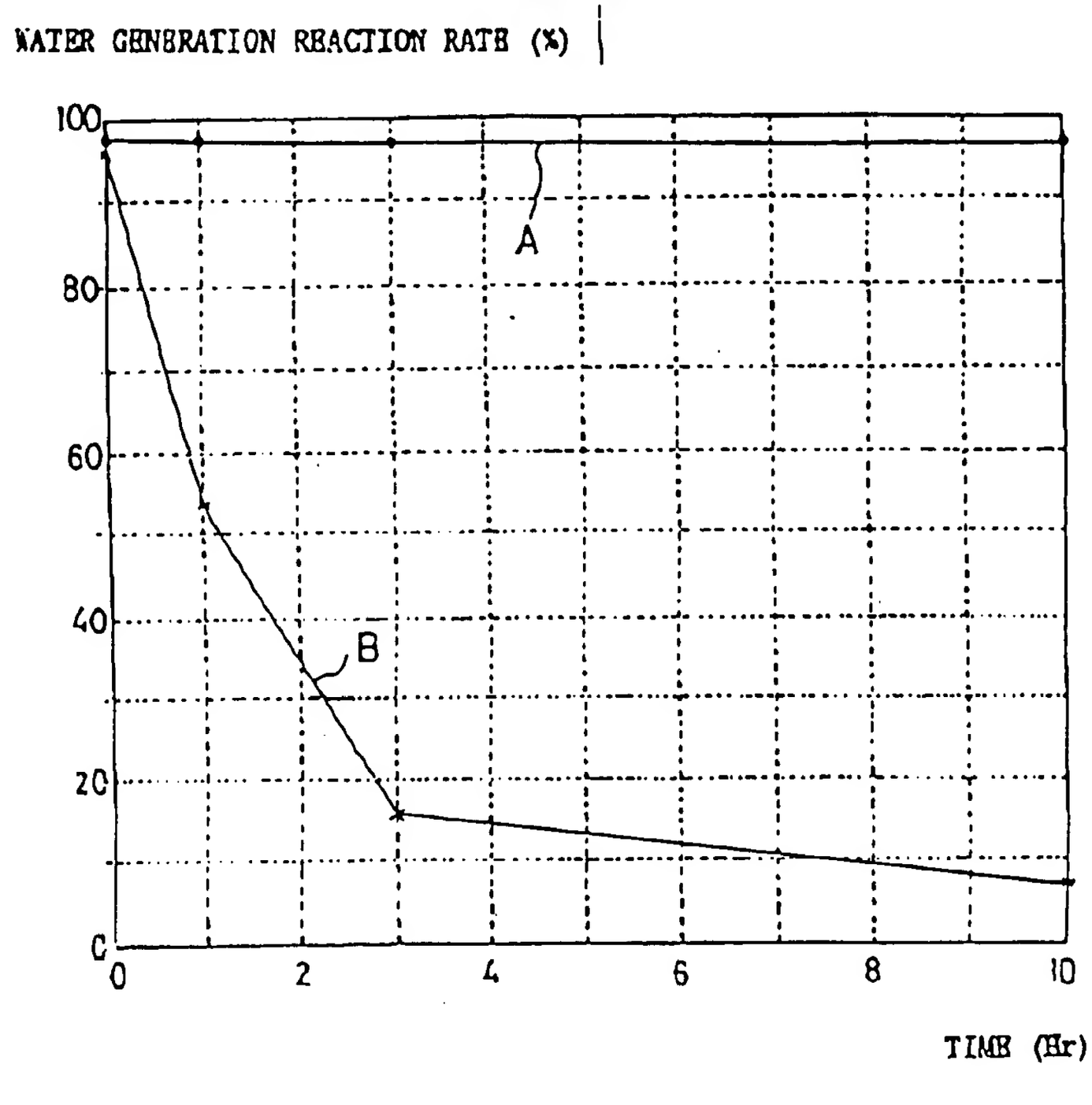

WATER GENERATION REACTION RATE (%)
100
80
60
40
20
0
A
B
0
2
4
6
8
10
TIME (Hr)

Fig.52

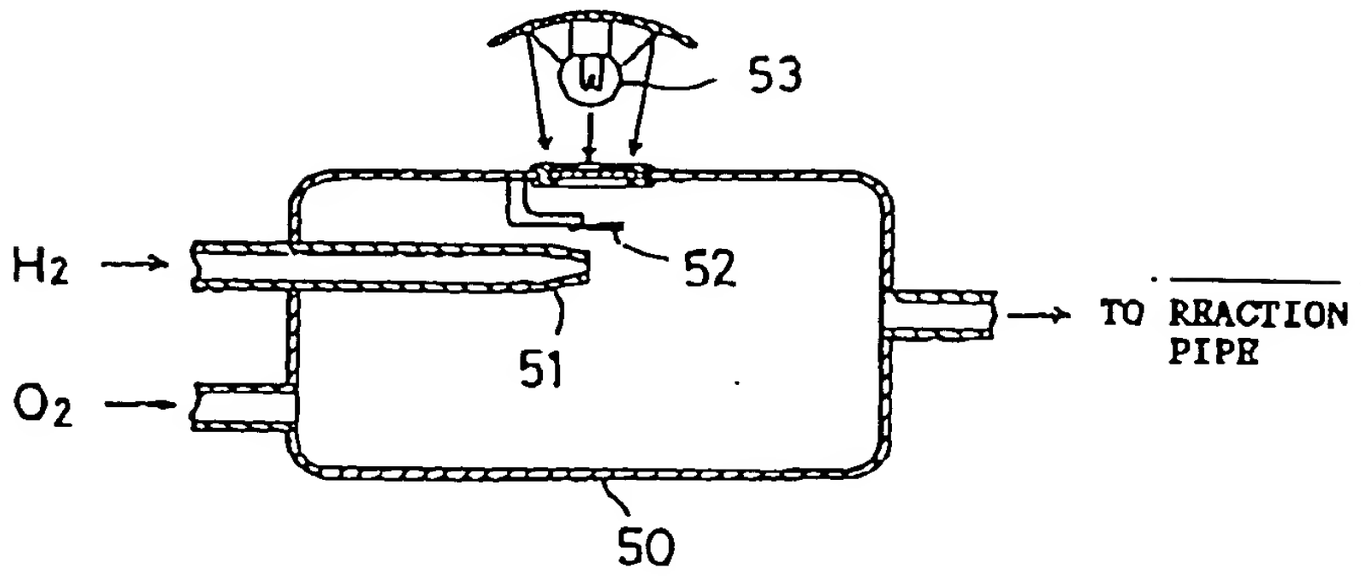
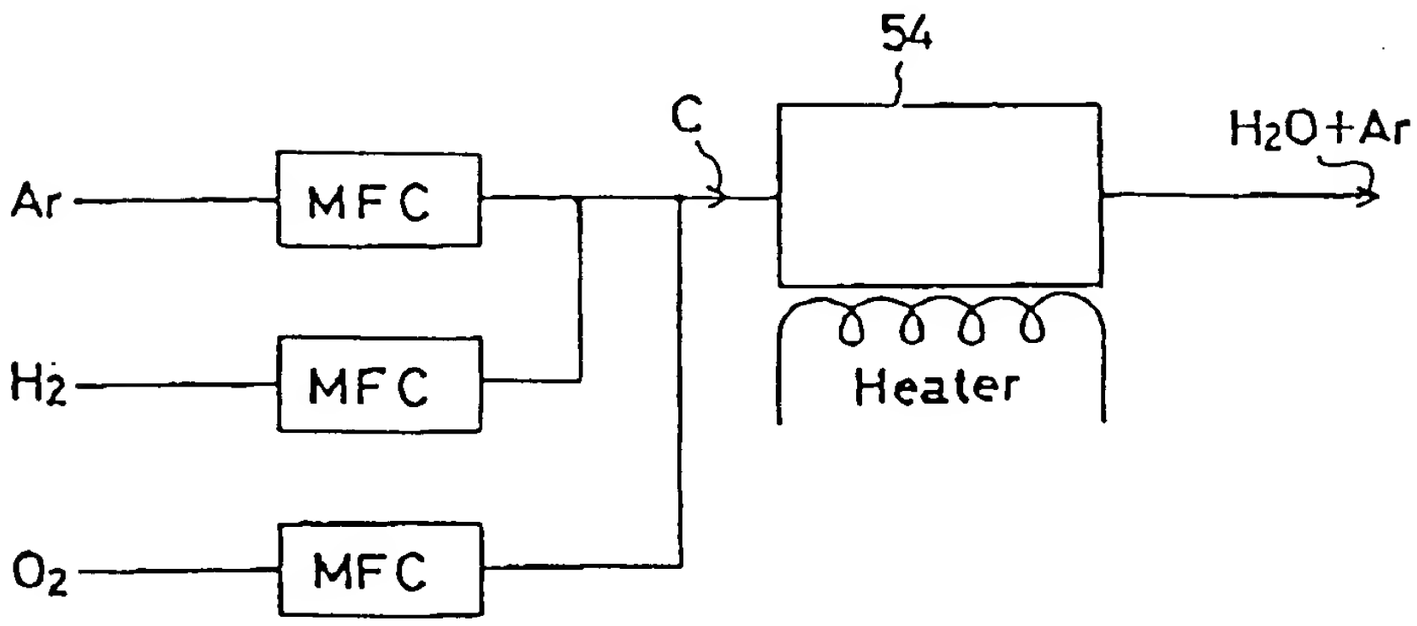

53
52
H2
51
O2
50
TO RRACTION PIPE

Fig.53


54
C
Ar
MFC
H2
MFC
O2
MFC
H2O+Ar
Heater